

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091819\
 Data File : VU034622.D
 Acq On : 17 Sep 2019 18:02
 Operator : JC/SP
 Sample : VSTD02001
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

Quant Time: Sep 17 18:22:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 17 18:13:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	106378	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	102438	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	48302	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	184021	22.24	ug/L	0.00
7) Chloroethane-d5	1.66	69	145366	21.46	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	321591	21.94	ug/L	0.00
20) 2-Butanone-d5	4.16	46	464679	230.04	ug/L	0.00
24) Chloroform-d	4.62	84	284421	22.61	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	156250	21.59	ug/L	0.00
32) Benzene-d6	5.31	84	588494	22.03	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	195029	21.52	ug/L	0.00
41) Toluene-d8	7.54	98	552646	21.85	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	81601	22.46	ug/L	0.00
46) 2-Hexanone-d5	8.29	63	377687	236.31	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	157858	22.69	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	171508	20.75	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	178965	22.848	ug/L	100
3) Chloromethane	1.32	50	166903	22.527	ug/L	98
5) Vinyl chloride	1.40	62	172136	22.083	ug/L	100
6) Bromomethane	1.61	94	85556	21.998	ug/L	94
8) Chloroethane	1.68	64	101828	22.501	ug/L	98
9) Trichlorofluoromethane	1.87	101	235439	22.992	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	131941	22.917	ug/L	98
12) 1,1-Dichloroethene	2.27	96	113501	22.082	ug/L	86
13) Acetone	2.31	43	327295	204.508	ug/L	100
14) Carbon disulfide	2.46	76	297314	22.702	ug/L	98
15) Methyl Acetate	2.60	43	79501	20.327	ug/L	96
16) Methylene chloride	2.68	84	136123	19.382	ug/L	98
17) Methyl tert-butyl Ether	2.98	73	403028	22.480	ug/L	99
18) trans-1,2-Dichloroethene	2.96	96	119044	22.346	ug/L	97
19) 1,1-Dichloroethane	3.42	63	293216	22.605	ug/L	99
21) 2-Butanone	4.25	43	559665	255.168	ug/L	94
22) cis-1,2-Dichloroethene	4.20	96	160829	22.633	ug/L	94
23) Bromochloromethane	4.52	128	61715	23.840	ug/L	95
25) Chloroform	4.65	83	306968	20.781	ug/L	97
27) 1,2-Dichloroethane	5.38	62	192310	23.162	ug/L	97
29) 1,1,1-Trichloroethane	4.89	97	239771	22.831	ug/L	98
30) Cyclohexane	4.96	56	243512	21.846	ug/L	98
31) Carbon tetrachloride	5.11	117	201128	23.743	ug/L	98
33) Benzene	5.36	78	614008	22.788	ug/L	100
34) Trichloroethene	6.16	95	153547	22.880	ug/L	97
35) Methylcyclohexane	6.39	83	243873	22.392	ug/L	98
37) 1,2-Dichloropropane	6.41	63	182800	21.749	ug/L	99
38) Bromodichloromethane	6.73	83	230995	23.324	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	274837	23.662	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	1452910	232.815	ug/L	99

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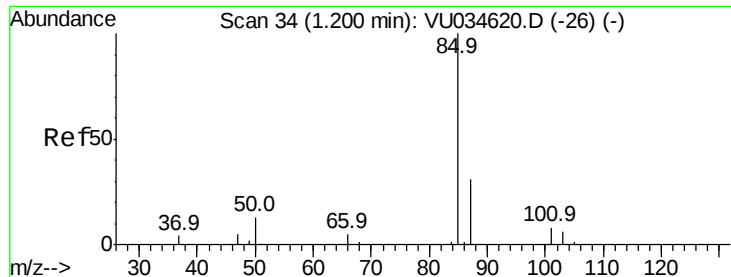
Instrument :
 MSVOA_U
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Quant Time: Sep 17 18:22:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
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 Response via : Initial Calibration

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

42) Toluene	7.61	91	665451	22.871	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	225010	23.944	ug/L	98
45) 1,1,2-Trichloroethane	8.04	97	120746	22.828	ug/L	99
47) Tetrachloroethene	8.20	164	93343	22.962	ug/L	96
48) 2-Hexanone	8.34	43	1025834	248.242	ug/L	99
49) Dibromochloromethane	8.46	129	144361	23.398	ug/L	97
50) 1,2-Dibromoethane	8.57	107	111766	23.276	ug/L #	99
51) Chlorobenzene	9.10	112	413326	22.603	ug/L	99
52) Ethylbenzene	9.22	91	773723	23.039	ug/L	99
53) m,p-Xylene	9.35	106	278809	23.520	ug/L	98
54) o-Xylene	9.76	106	277225	23.206	ug/L	95
55) Styrene	9.77	104	476528	24.263	ug/L	99
56) Isopropylbenzene	10.14	105	756263	22.671	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	181754	23.406	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	121925	22.334	ug/L	100
61) Bromoform	9.94	173	72968	23.723	ug/L	96
62) 1,3-Dichlorobenzene	11.39	146	316288	22.968	ug/L	99
63) 1,4-Dichlorobenzene	11.48	146	318445	23.220	ug/L	97
65) 1,2-Dichlorobenzene	11.85	146	304122	22.449	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.63	75	29768	24.827	ug/L	94
67) 1,3,5-Trichlorobenzene	12.86	180	214617	24.107	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	188583	27.408	ug/L	98
69) Naphthalene	13.72	128	430255	25.134	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	169187	25.874	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 22.848 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

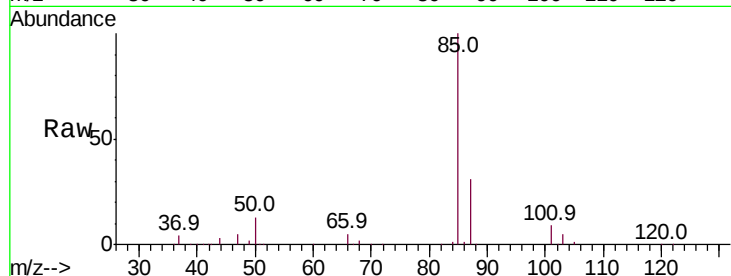
VSTD02001

Tot Ion: 85 Resp: 178965

Ion Ratio Lower Upper

85 100

87 31.5 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU034622.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU034622.D (-1) (-)

1.20

150000

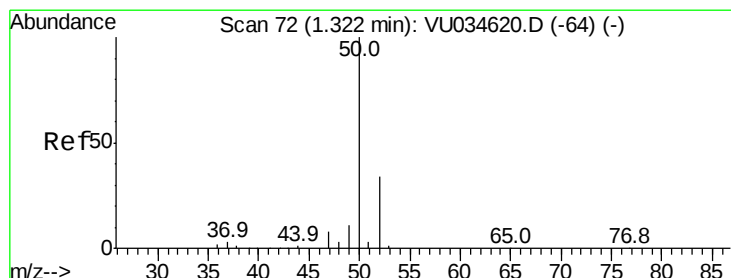
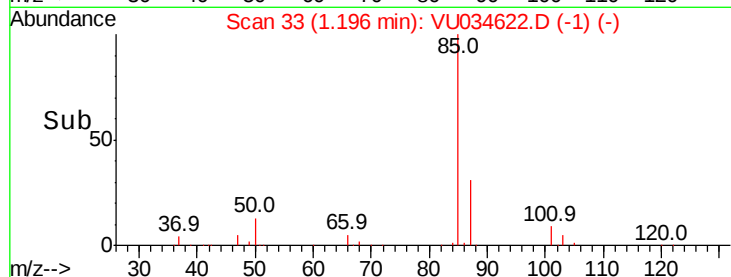
100000

50000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 22.527 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034622.D

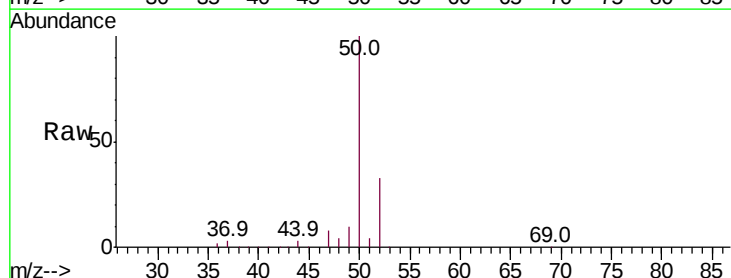
Acq: 17 Sep 2019 18:02

Tgt Ion: 50 Resp: 166903

Ion Ratio Lower Upper

50 100

52 32.9 23.9 44.3



Abundance Ion 50.05 (49.75 to 50.75): VU034622.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU034622.D (-1) (-)

1.32

150000

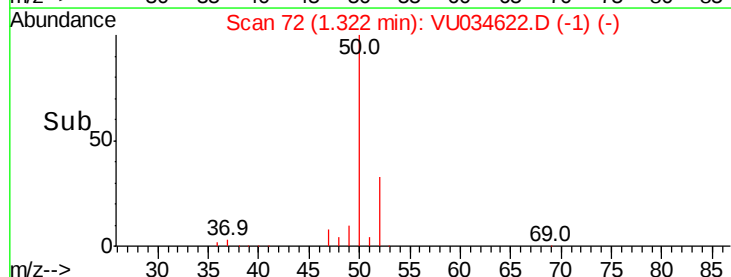
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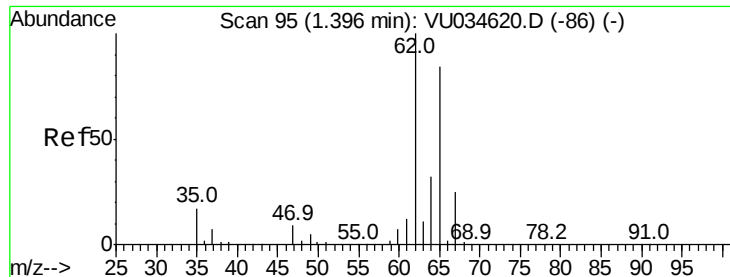
50000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 22.083 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampled :

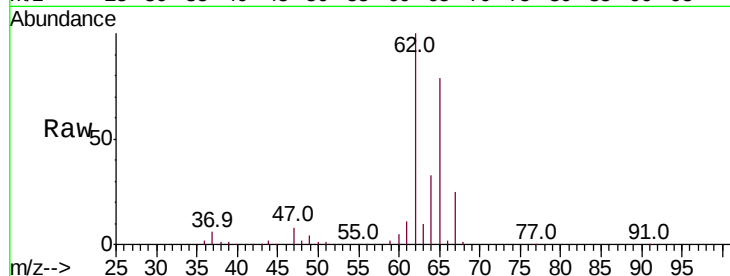
VSTD02001

Tot Ion: 62 Resp: 172136

Ion Ratio Lower Upper

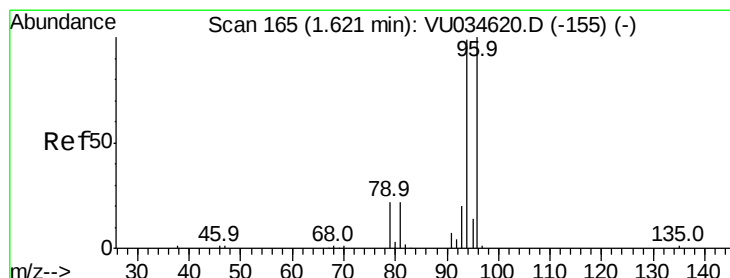
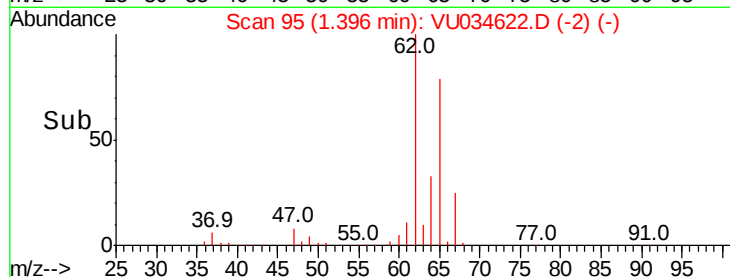
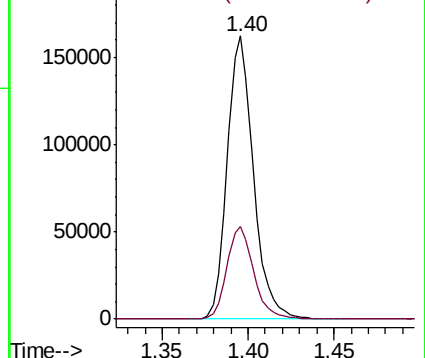
62 100

64 32.6 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: 21.998 ug/L

RT: 1.61 min Scan# 161

Delta R.T. -0.01 min

Lab File: VU034622.D

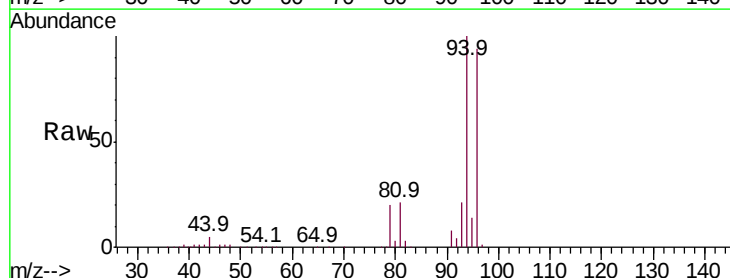
Acq: 17 Sep 2019 18:02

Tgt Ion: 94 Resp: 85556

Ion Ratio Lower Upper

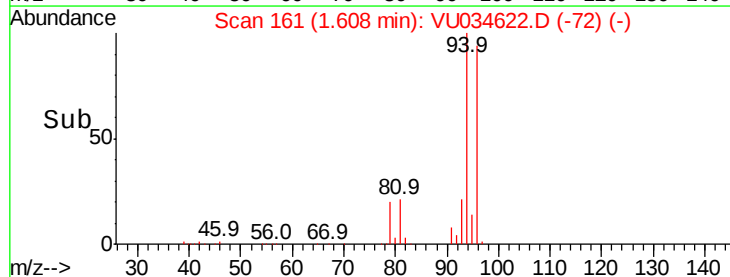
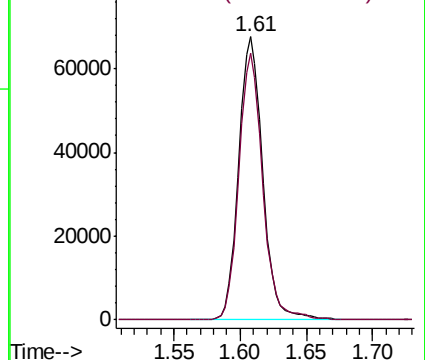
94 100

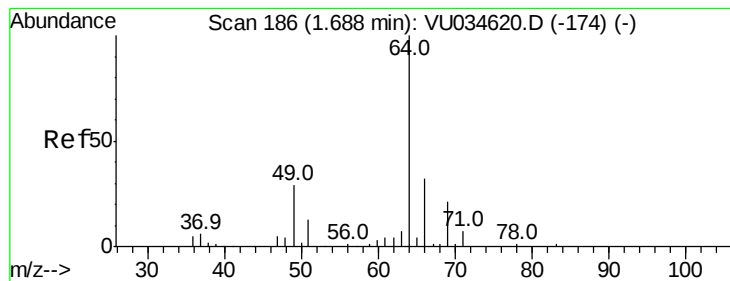
96 94.1 70.4 130.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 22.501 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

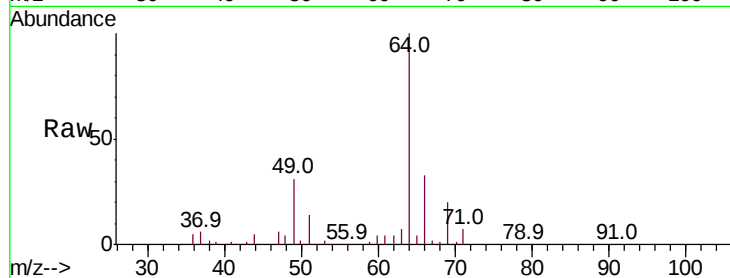
VSTD02001

Tot Ion: 64 Resp: 101828

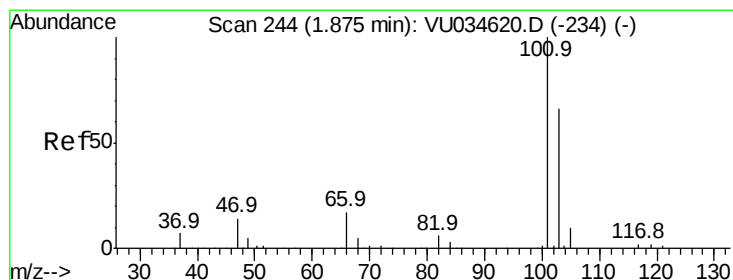
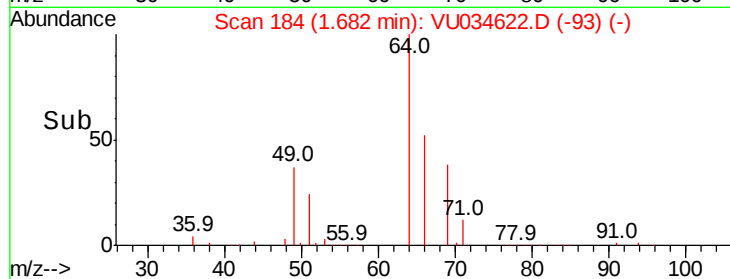
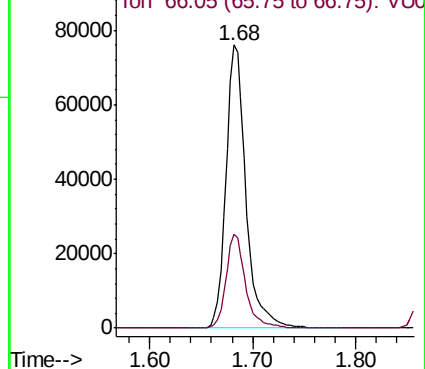
Ion Ratio Lower Upper

64 100

66 33.2 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU034622.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 22.992 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU034622.D

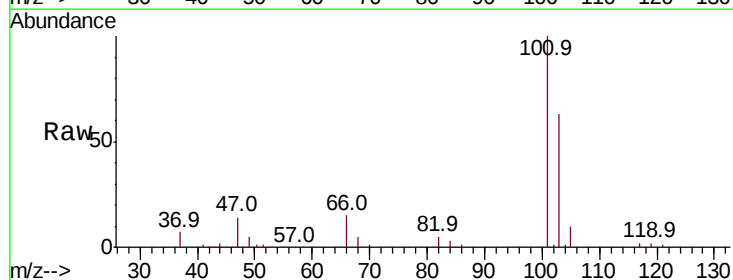
Acq: 17 Sep 2019 18:02

Tgt Ion:101 Resp: 235439

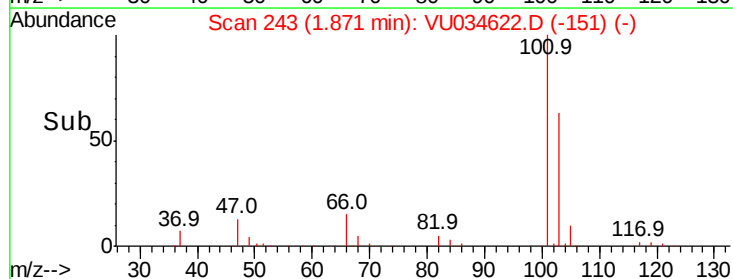
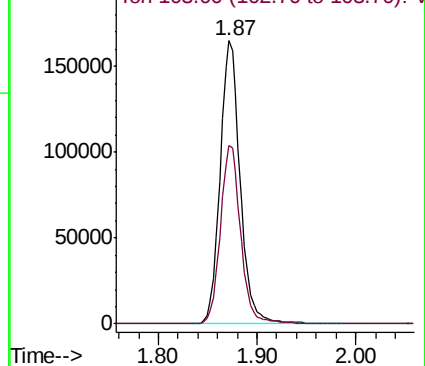
Ion Ratio Lower Upper

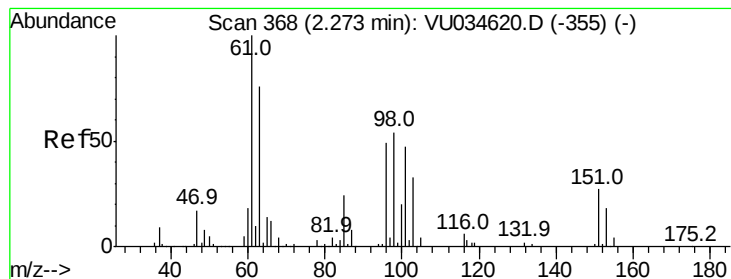
101 100

103 63.8 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VU034622.D (-234) (-)





#10

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

Concen: 22.917 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

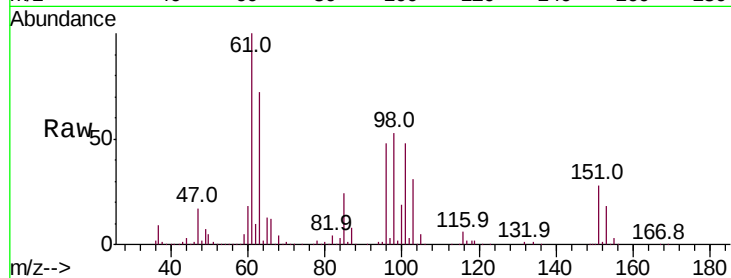
Tot Ion:101 Resp: 131941

Ion Ratio Lower Upper

101 100

85 50.2 41.9 62.9

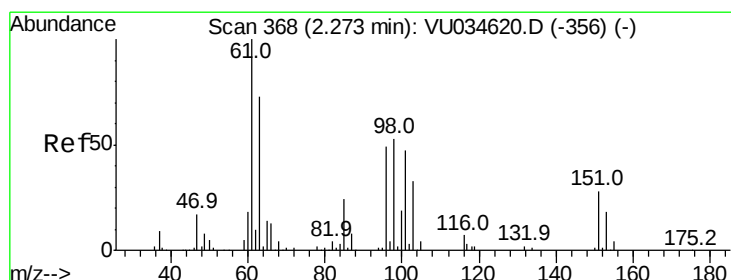
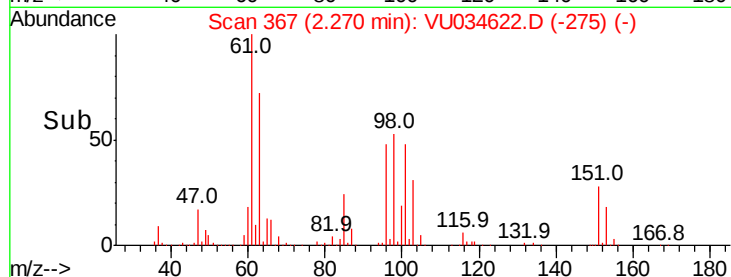
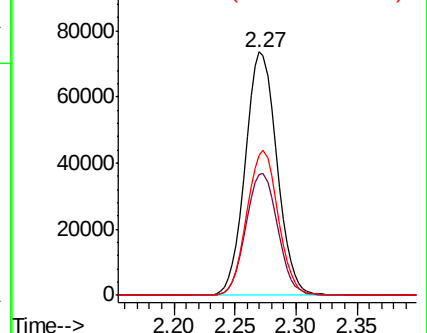
151 58.7 46.4 69.6



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: 22.082 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

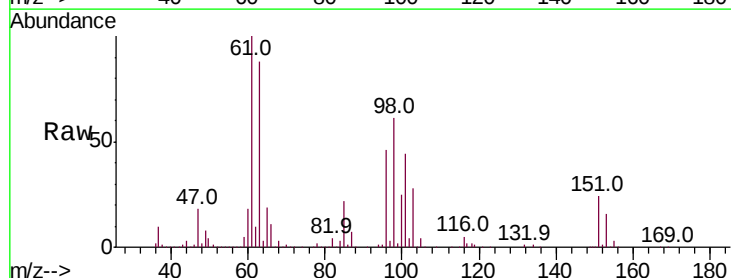
Tgt Ion: 96 Resp: 113501

Ion Ratio Lower Upper

96 100

61 216.3 144.4 268.2

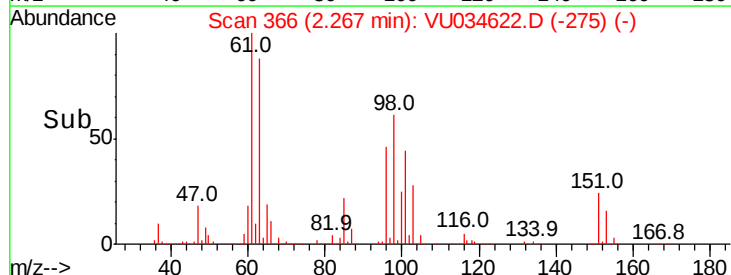
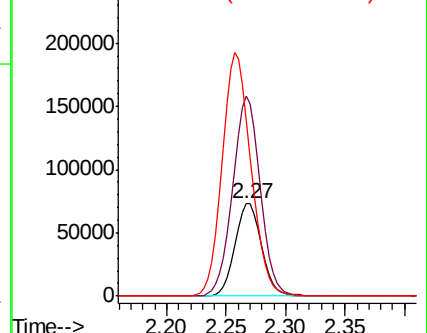
63 190.2 111.5 207.1

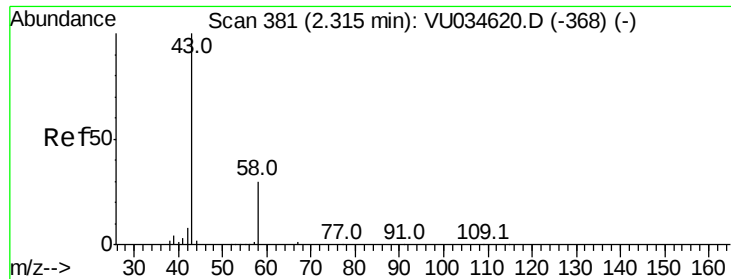


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 204.508 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

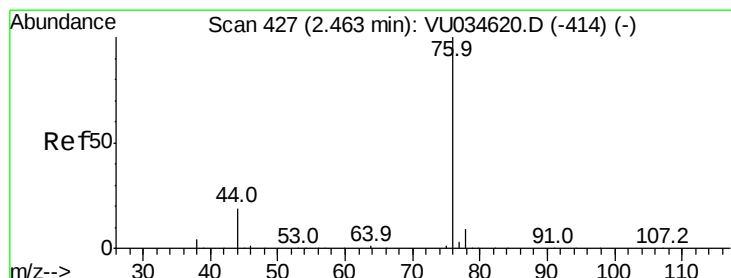
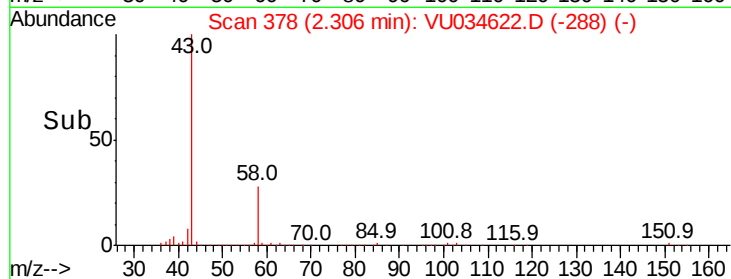
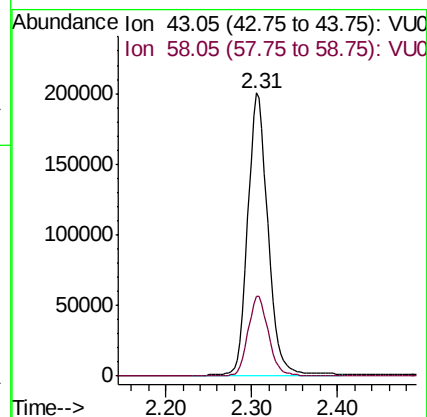
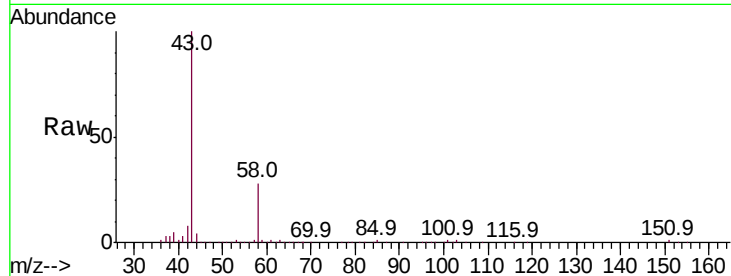
VSTD02001

Tot Ion: 43 Resp: 327295

Ion Ratio Lower Upper

43 100

58 29.0 0.0 57.8



#14

Carbon disulfide

Concen: 22.702 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU034622.D

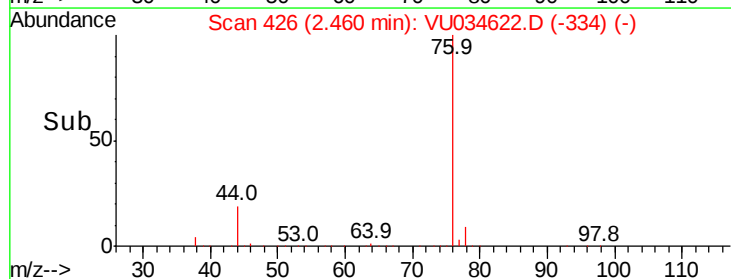
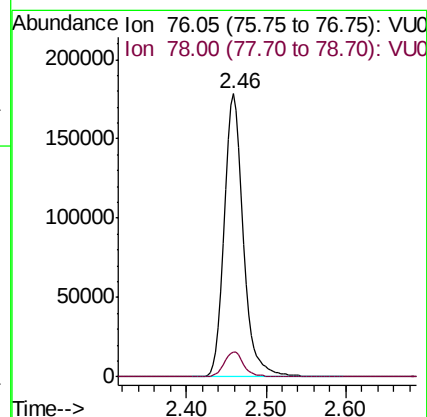
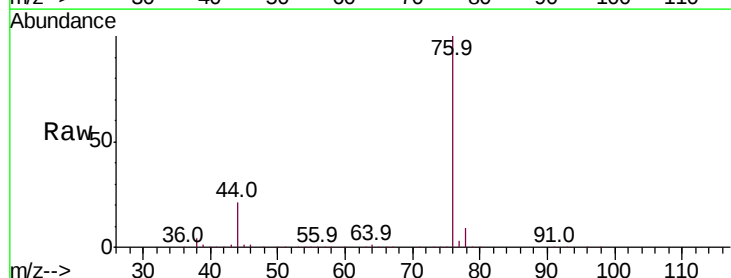
Acq: 17 Sep 2019 18:02

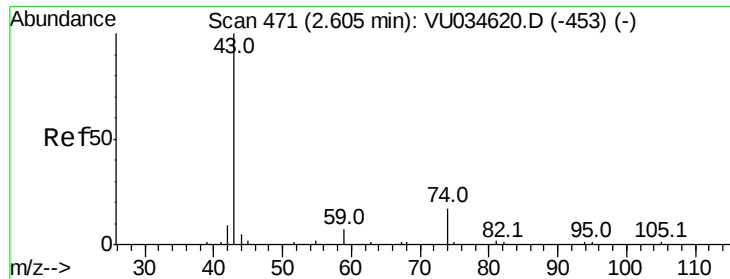
Tgt Ion: 76 Resp: 297314

Ion Ratio Lower Upper

76 100

78 8.9 7.7 11.5

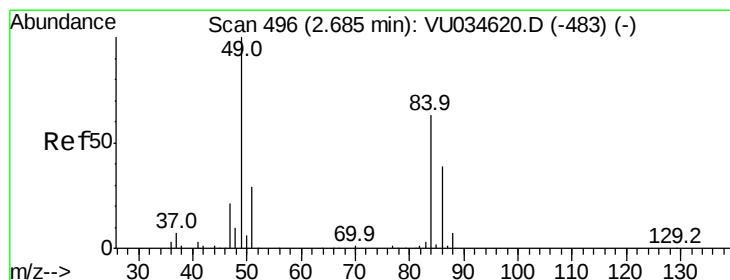
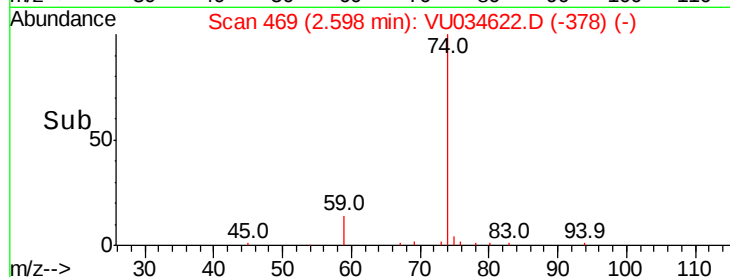
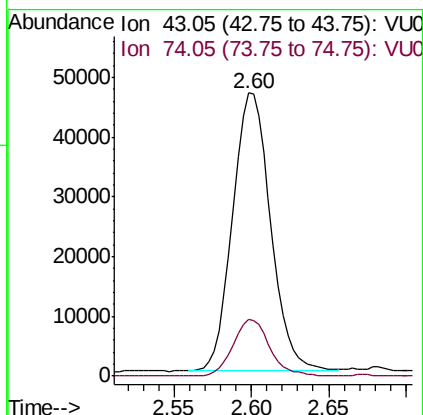
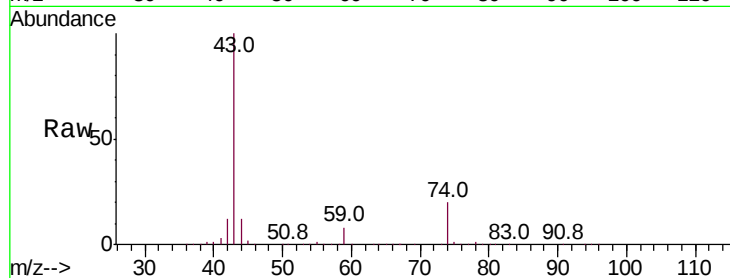




#15
Methvl Acetate
Concen: 20.327 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.01 min
Lab File: VU034622.D
Acq: 17 Sep 2019 18:02

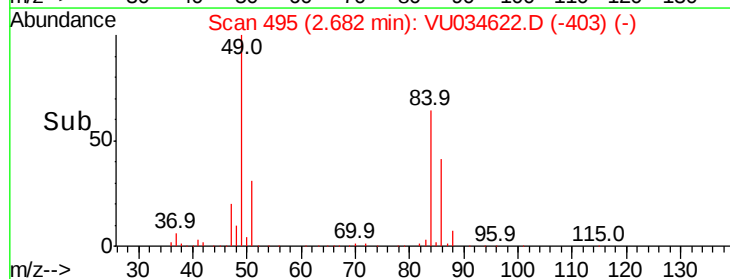
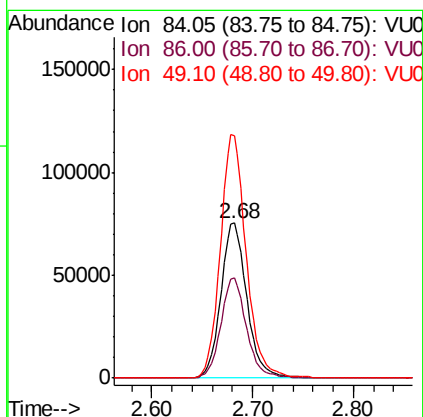
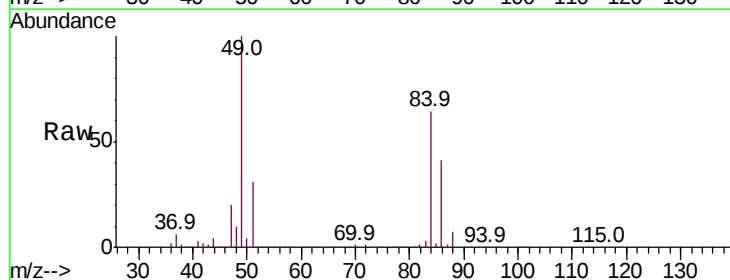
Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

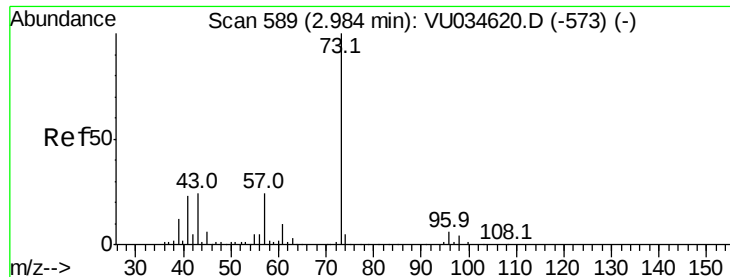
Tot Ion: 43 Resp: 79501
Ion Ratio Lower Upper
43 100
74 19.7 14.2 21.2



#16
Methylene chloride
Concen: 19.382 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU034622.D
Acq: 17 Sep 2019 18:02

Tgt Ion: 84 Resp: 136123
Ion Ratio Lower Upper
84 100
86 64.4 43.0 80.0
49 156.7 110.9 205.9





#17

Methvl tert-butvl Ether

Concen: 22.480 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

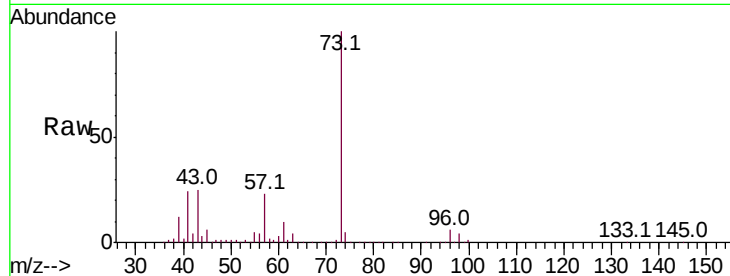
Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tot Ion: 73 Resp: 403028

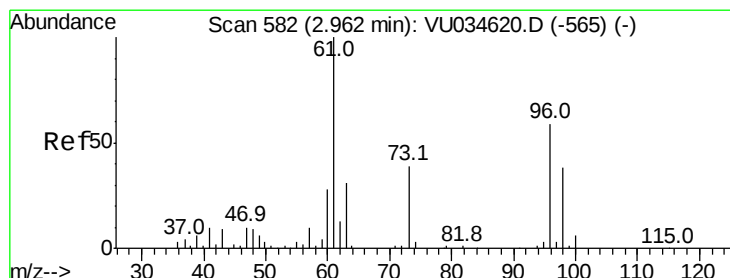
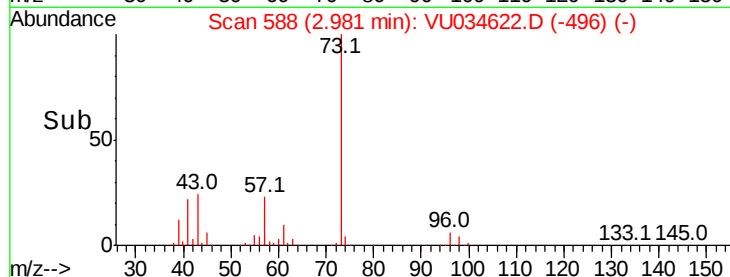
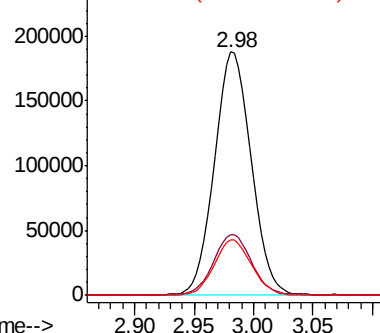
Ion	Ratio	Lower	Upper
73	100		
43	25.0	20.3	30.5
57	22.9	18.9	28.3



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: 22.346 ug/L

RT: 2.96 min Scan# 581

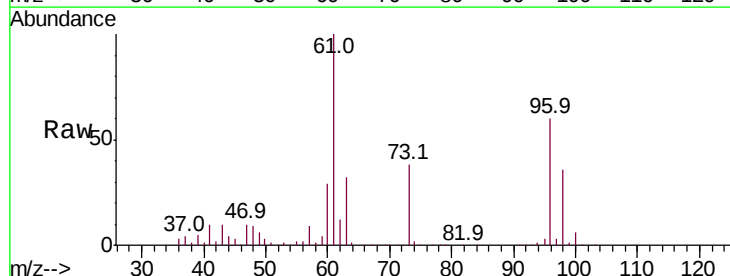
Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Tgt Ion: 96 Resp: 119044

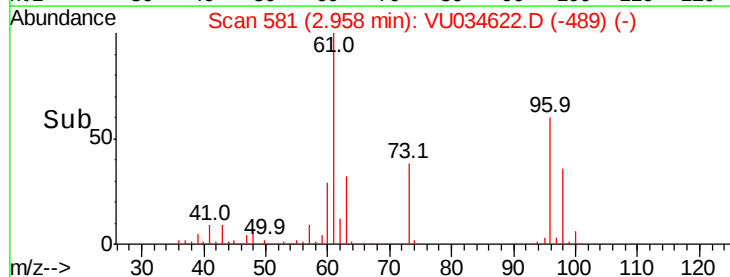
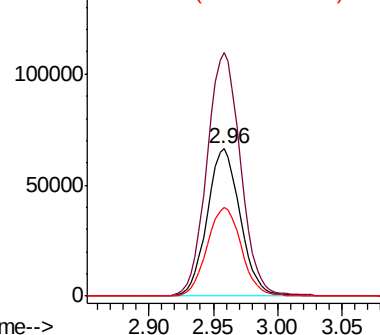
Ion	Ratio	Lower	Upper
96	100		
61	165.6	118.2	219.6
98	60.0	44.8	83.2

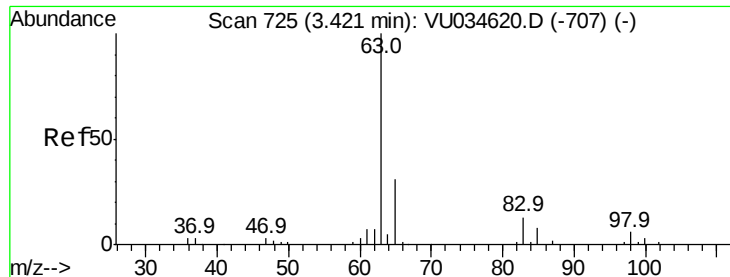


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 22.605 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

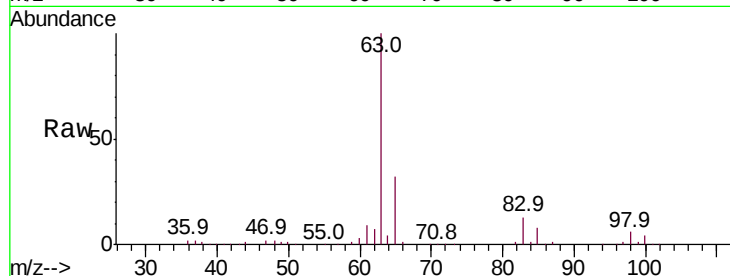
Tot Ion: 63 Resp: 293216

Ion Ratio Lower Upper

63 100

65 31.8 21.9 40.7

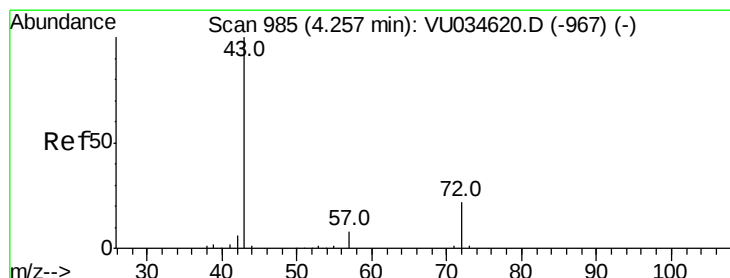
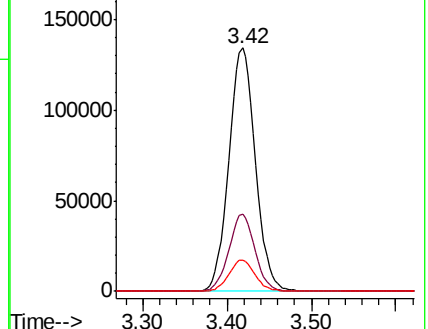
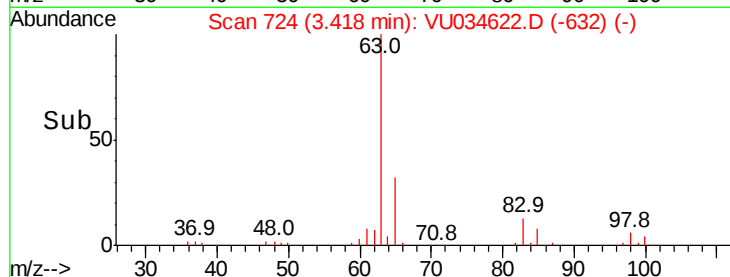
83 13.0 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU034622.D (-632) (-)

Ion 65.10 (64.80 to 65.80): VU034622.D (-632) (-)

Ion 83.05 (82.75 to 83.75): VU034622.D (-632) (-)



#21

2-Butanone

Concen: 255.168 ug/L

RT: 4.25 min Scan# 982

Delta R.T. -0.01 min

Lab File: VU034622.D

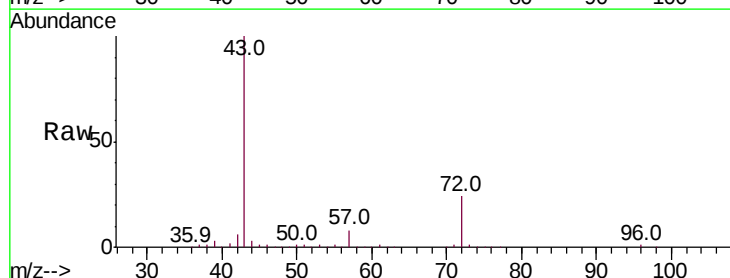
Acq: 17 Sep 2019 18:02

Tgt Ion: 43 Resp: 559665

Ion Ratio Lower Upper

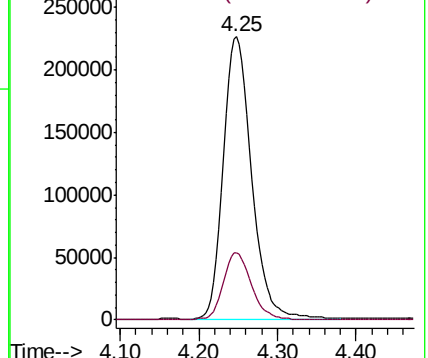
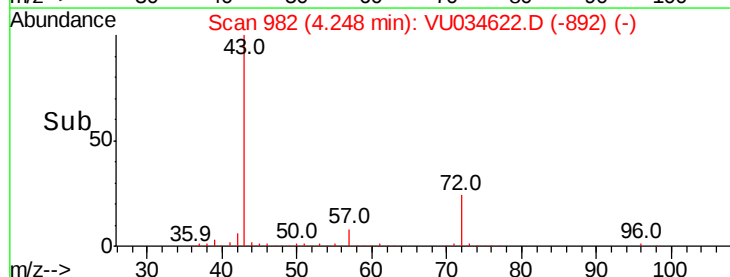
43 100

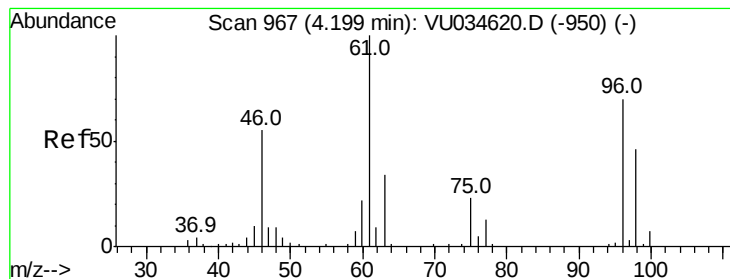
72 24.1 10.8 32.3



Abundance Ion 43.05 (42.75 to 43.75): VU034622.D (-892) (-)

Ion 72.10 (71.80 to 72.80): VU034622.D (-892) (-)



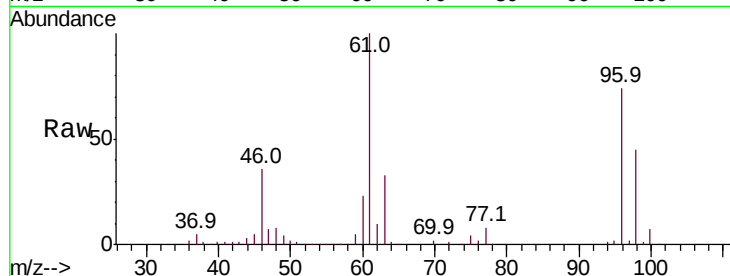


#22

cis-1,2-Dichloroethene
 Concen: 22.633 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.3	100.0	185.8
68	0.0	0.0	0.0

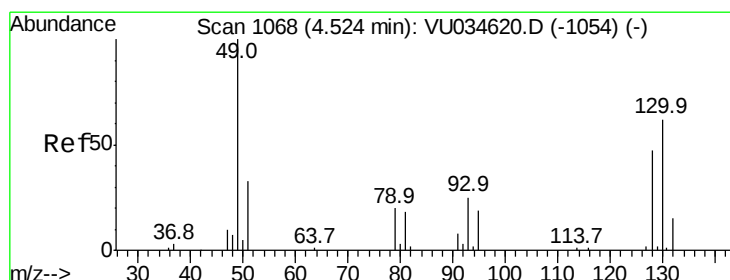
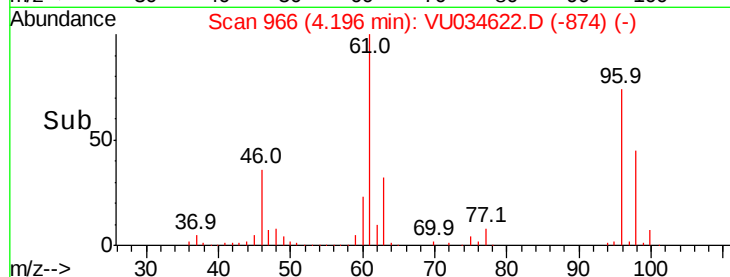
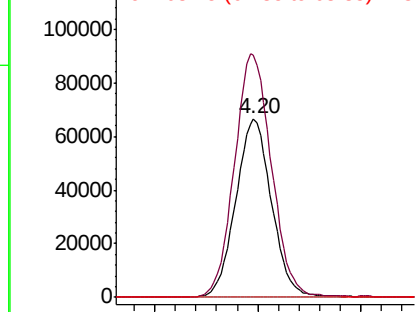


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

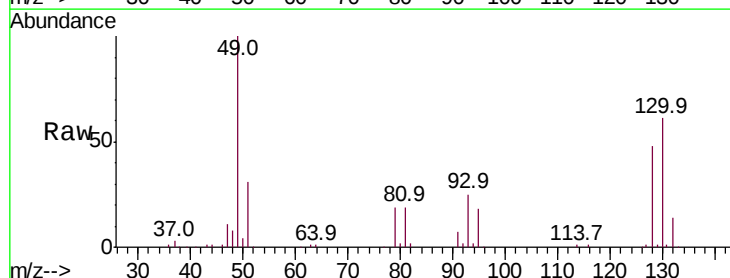
Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane
 Concen: 23.840 ug/L
 RT: 4.52 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion	Ratio	Lower	Upper
128	100		
49	206.8	149.9	278.3
130	126.0	91.3	169.6
51	64.0	55.7	83.5



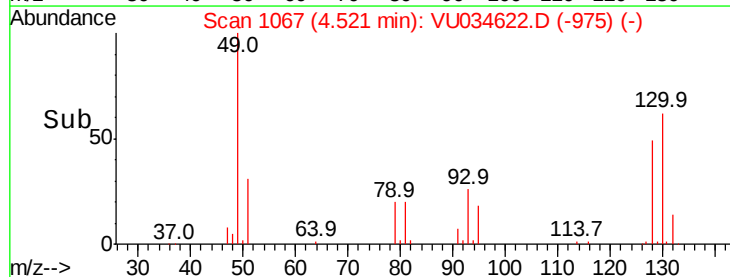
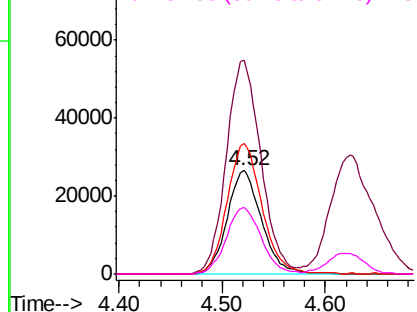
Abundance

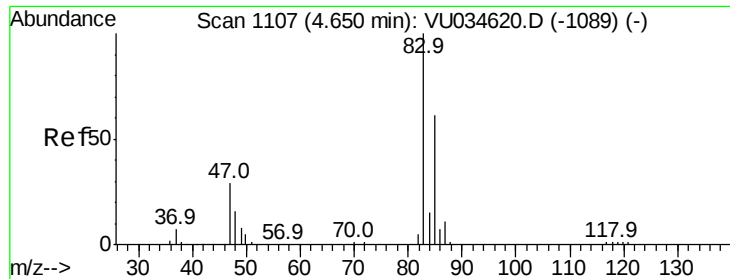
Ion 127.90 (127.60 to 128.60): V

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: 20.781 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

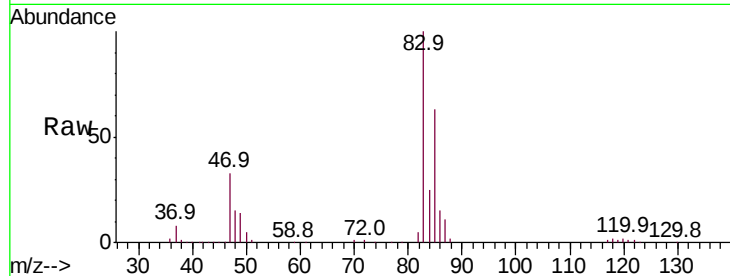
VSTD02001

Tot Ion: 83 Resp: 306968

Ion Ratio Lower Upper

83 100

85 63.1 42.8 79.4



Abundance Ion 83.05 (82.75 to 83.75): VU034622.D (-1089) (-)

Ion 85.00 (84.70 to 85.70): VU034622.D (-1089) (-)

150000

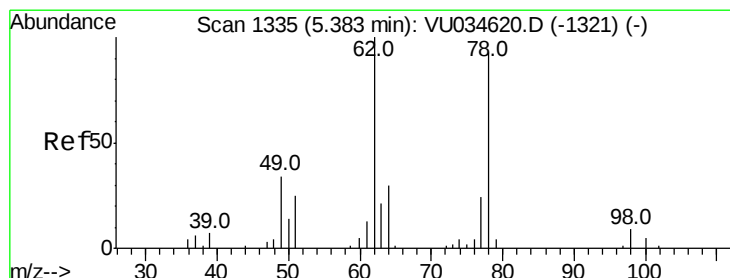
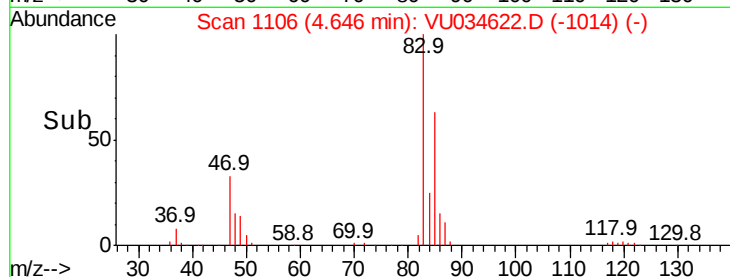
100000

50000

0

4.60 4.70

Time-->



#27

1,2-Dichloroethane

Concen: 23.162 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU034622.D

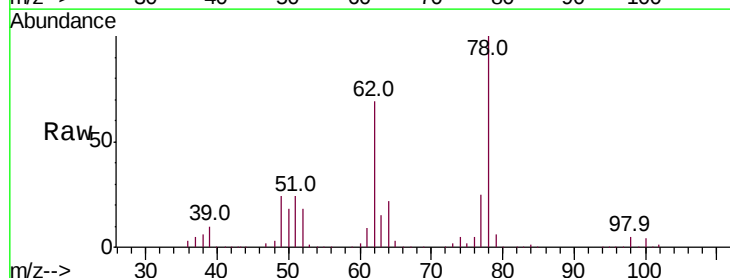
Acq: 17 Sep 2019 18:02

Tgt Ion: 62 Resp: 192310

Ion Ratio Lower Upper

62 100

98 7.6 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU034622.D (-1242) (-)

Ion 98.05 (97.75 to 98.75): VU034622.D (-1242) (-)

100000

80000

60000

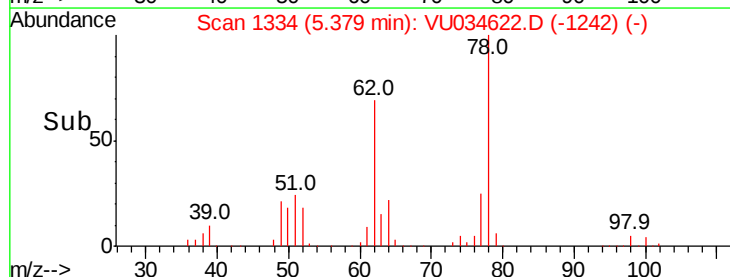
40000

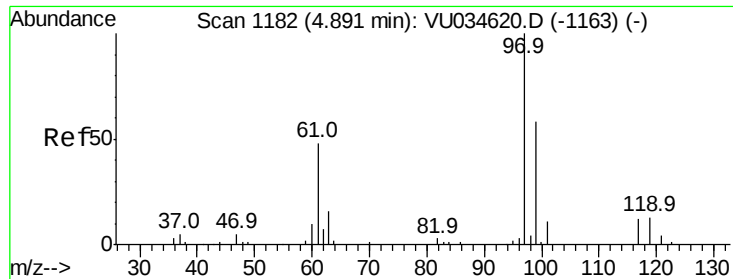
20000

0

5.30 5.40 5.50

Time-->

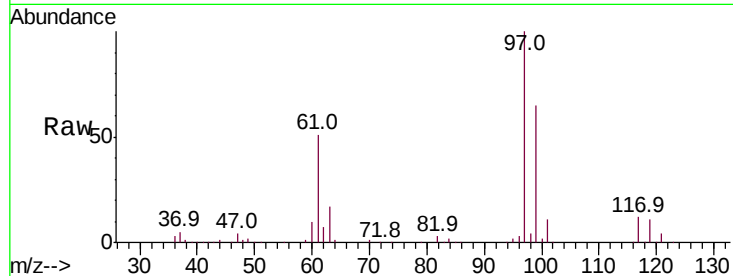




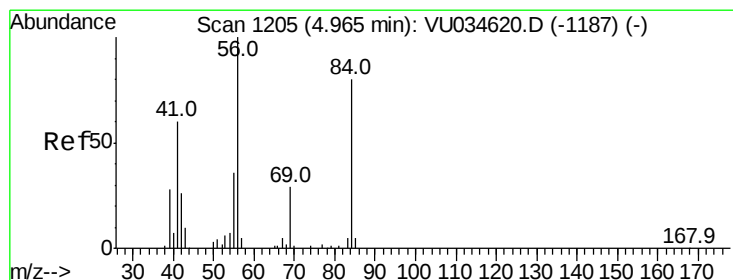
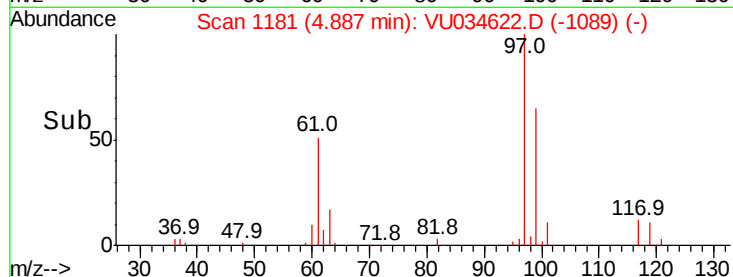
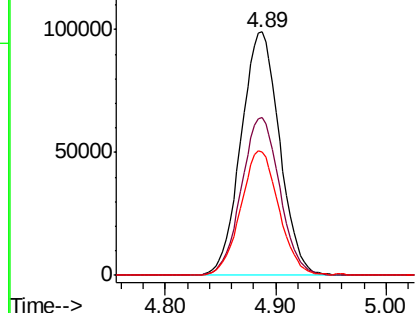
#29
 1,1,1-Trichloroethane
 Concen: 22.831 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

Tot Ion: 97 Resp: 239771
 Ion Ratio Lower Upper
 97 100
 99 64.5 50.0 75.0
 61 50.5 39.8 59.6

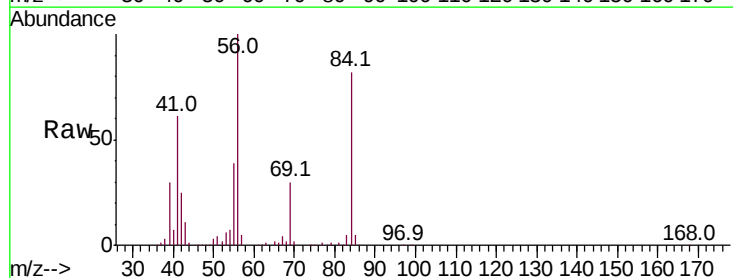


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

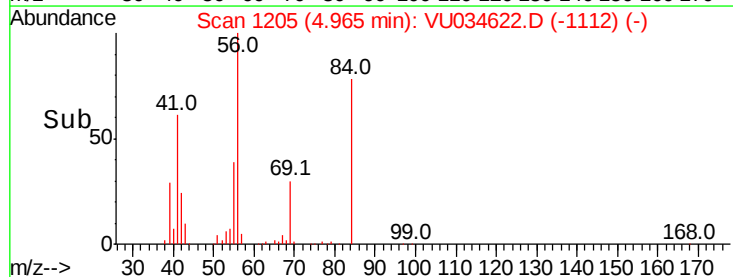
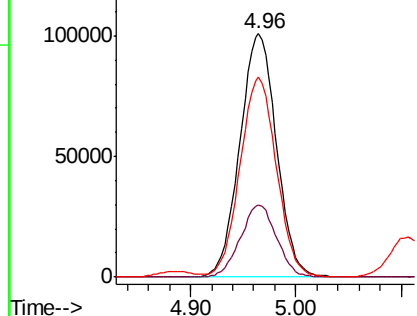


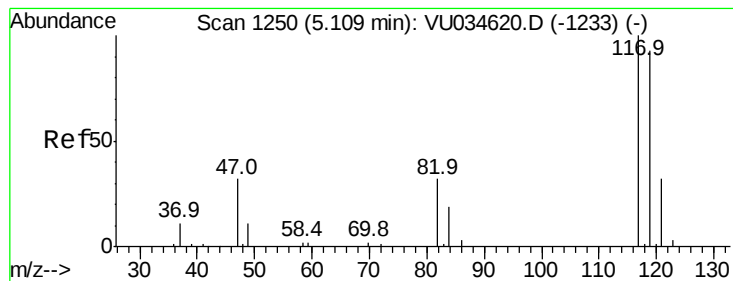
#30
 Cyclohexane
 Concen: 21.846 ug/L
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion: 56 Resp: 243512
 Ion Ratio Lower Upper
 56 100
 69 29.2 21.4 32.2
 84 81.3 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: 23.743 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

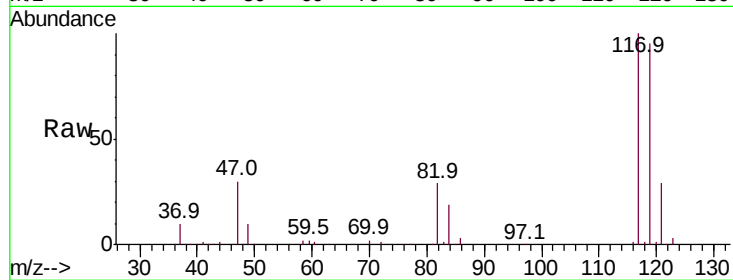
VSTD02001

Tot Ion:117 Resp: 201128

Ion Ratio Lower Upper

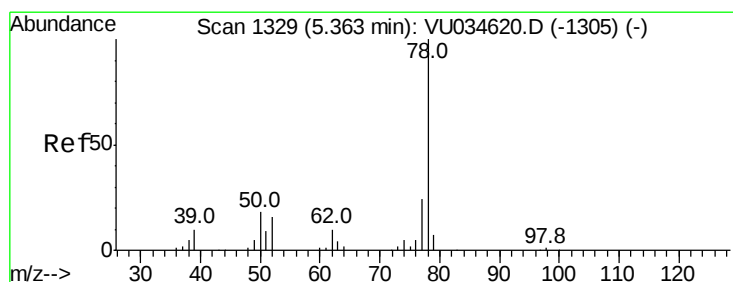
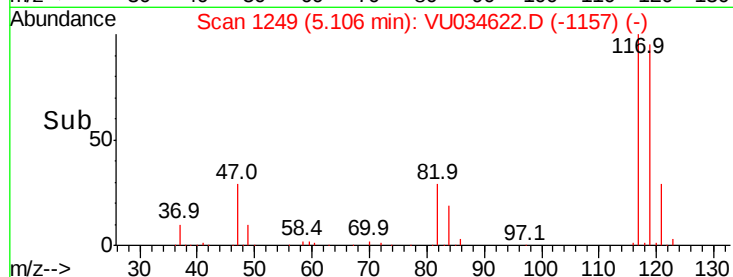
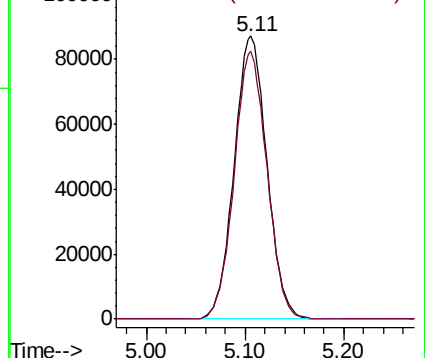
117 100

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



#33

Benzene

Concen: 22.788 ug/L

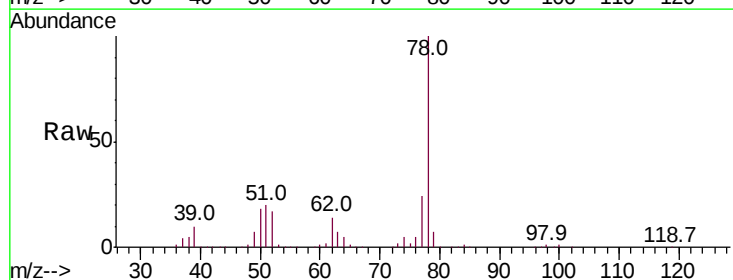
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

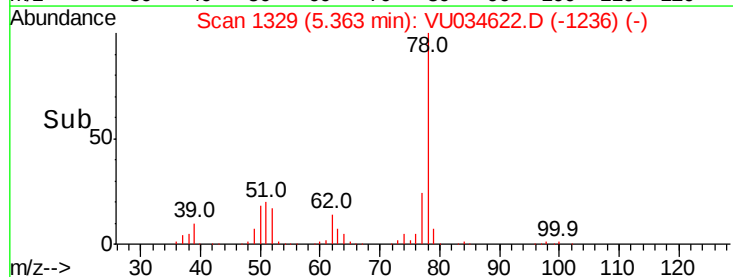
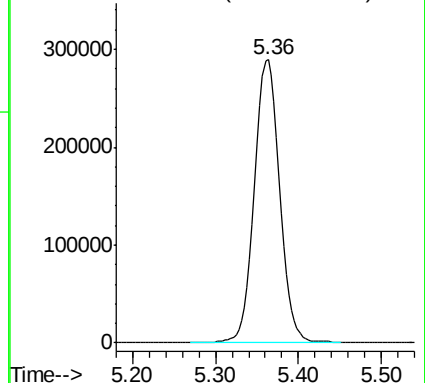
Lab File: VU034622.D

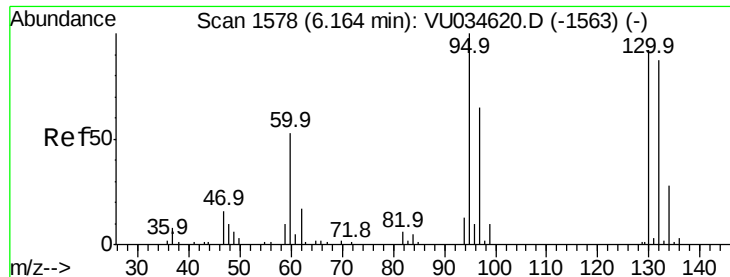
Acq: 17 Sep 2019 18:02

Tgt Ion: 78 Resp: 614008



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 22.880 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

Tot Ion: 95 Resp: 153547

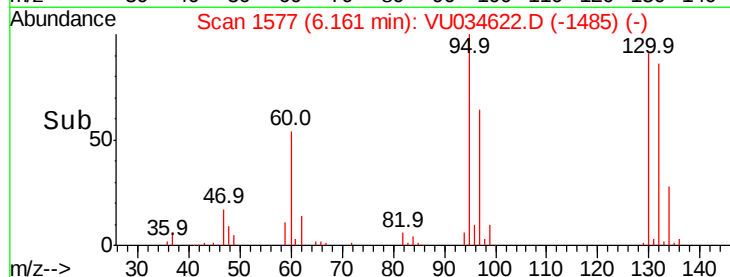
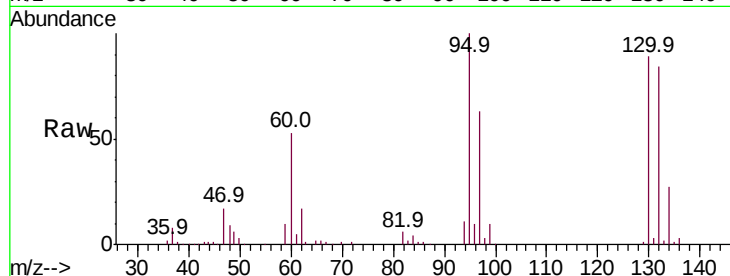
Ion Ratio Lower Upper

95 100

97 63.0 45.2 84.0

132 84.3 60.9 113.1

130 89.3 64.3 119.3

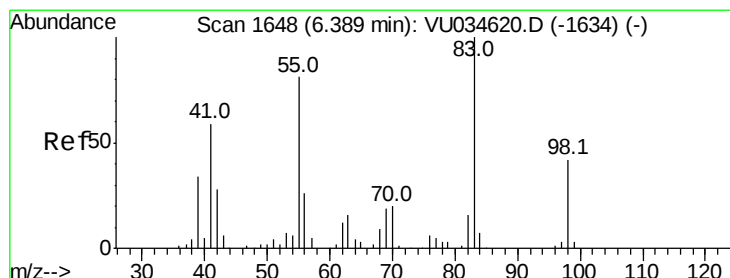
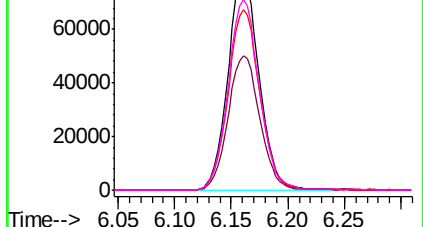


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 22.392 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

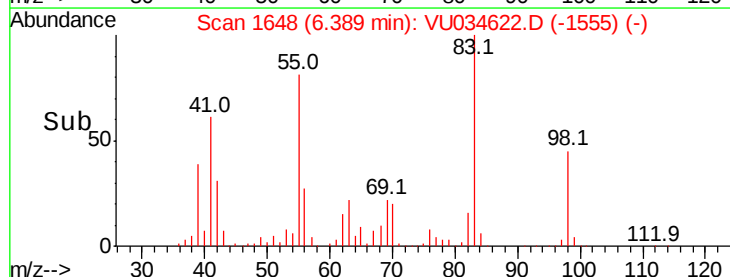
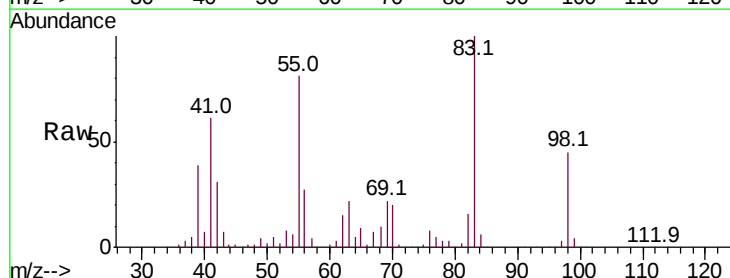
Tgt Ion: 83 Resp: 243873

Ion Ratio Lower Upper

83 100

55 81.1 66.8 100.2

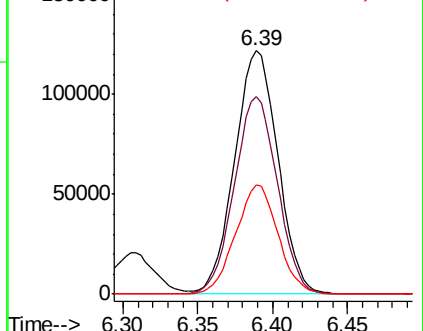
98 44.4 35.4 53.0

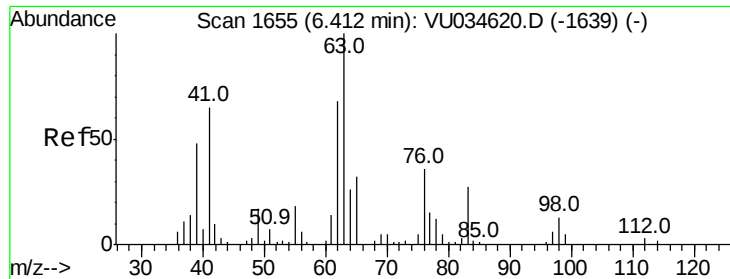


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

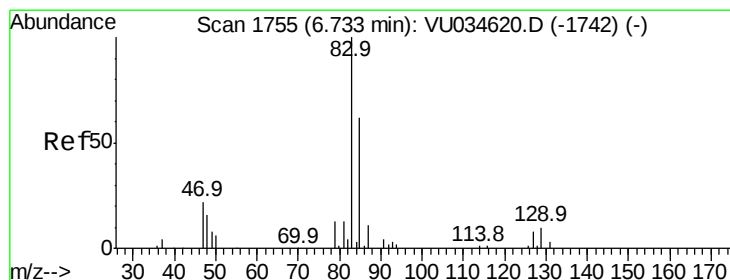
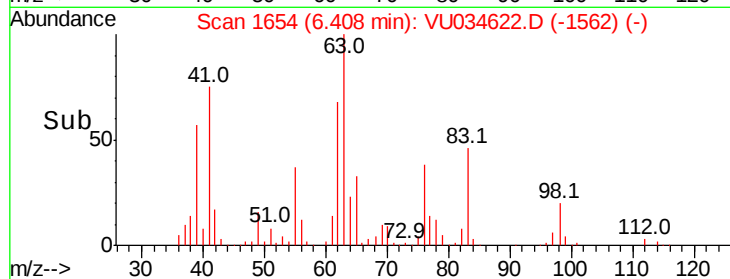
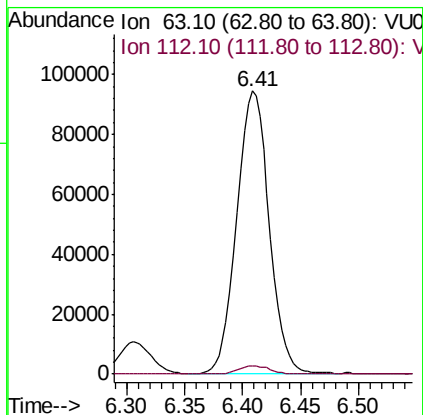
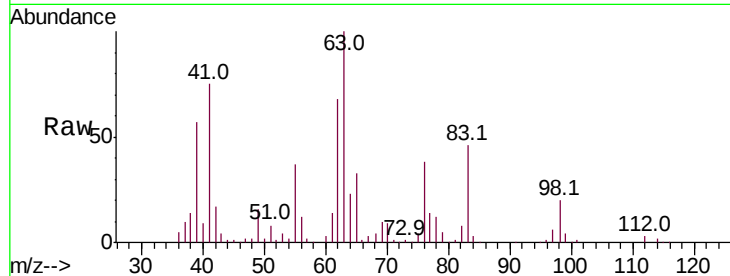




#37
 1,2-Dichloropropane
 Concen: 21.749 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

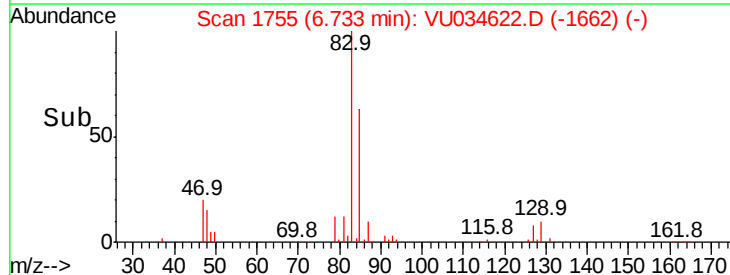
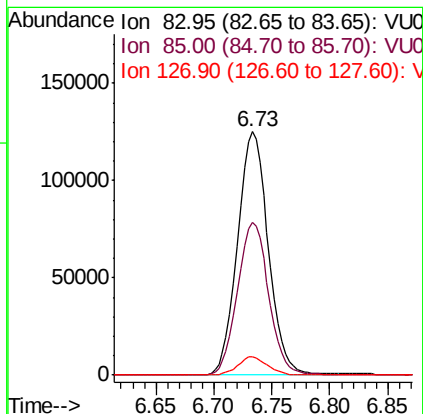
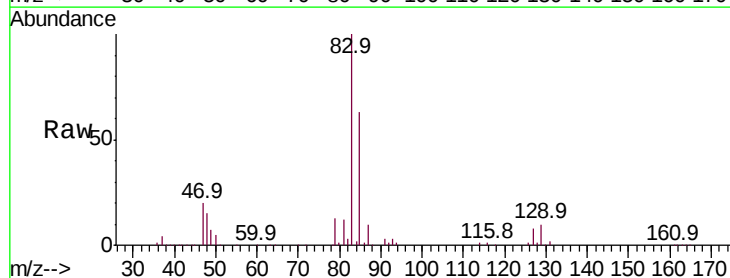
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

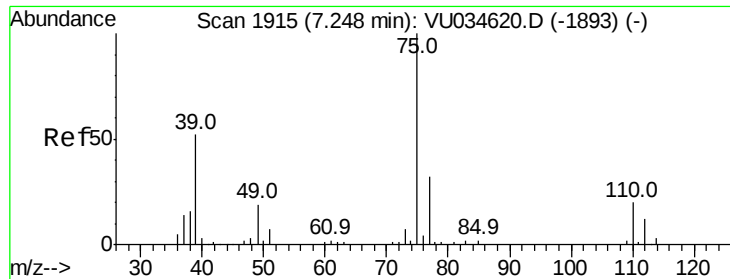
Tot Ion: 63 Resp: 182800
 Ion Ratio Lower Upper
 63 100
 112 2.9 2.2 3.2



#38
 Bromodichloromethane
 Concen: 23.324 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion: 83 Resp: 230995
 Ion Ratio Lower Upper
 83 100
 85 62.6 43.4 80.6
 127 7.6 6.2 9.2

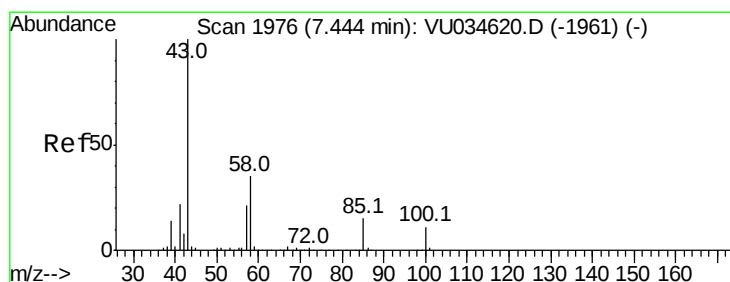
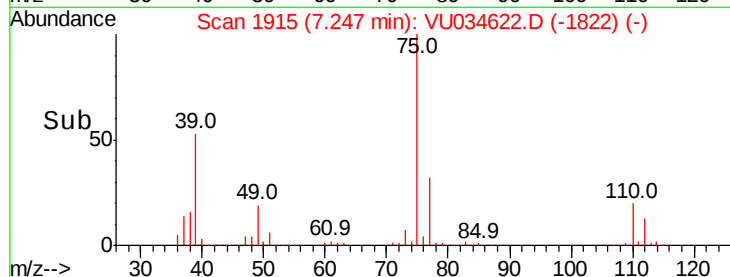
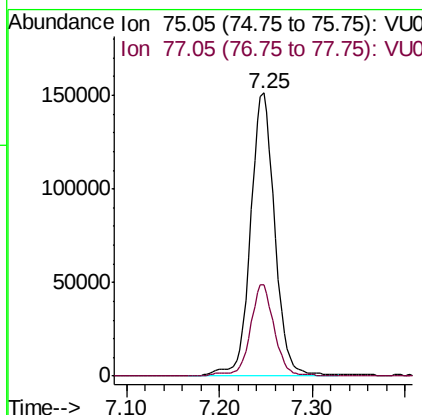
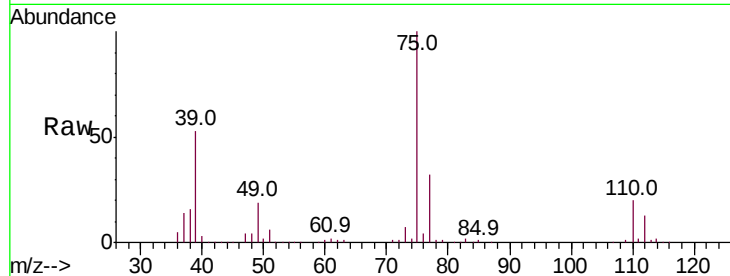




#39
 cis-1,3-Dichloropropene
 Concen: 23.662 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

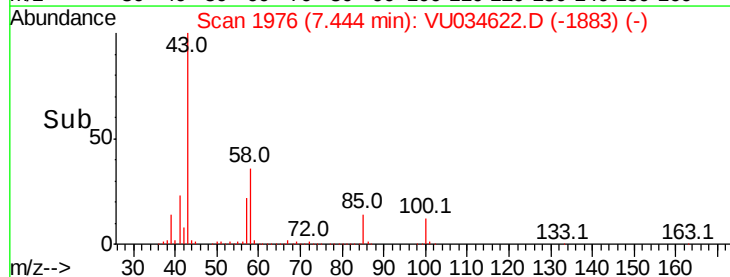
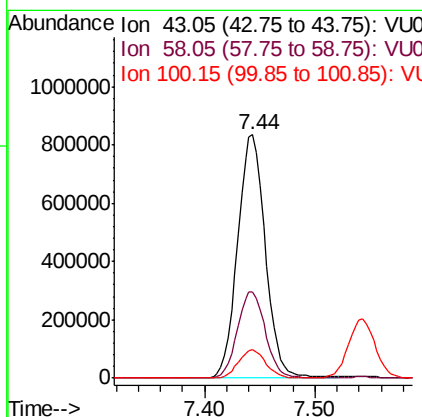
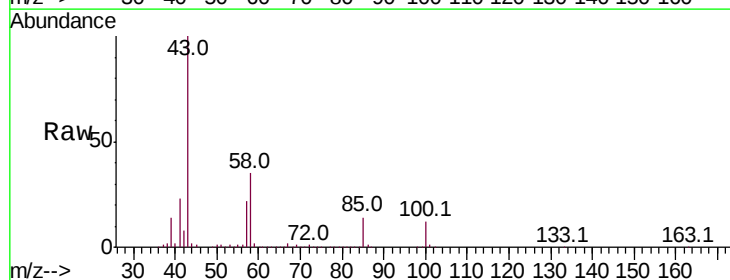
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

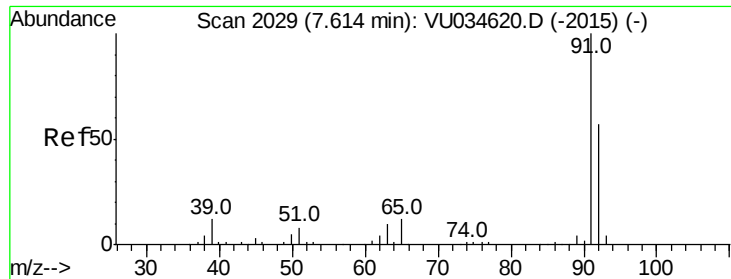
Tot Ion: 75 Resp: 274837
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 232.815 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion: 43 Resp: 1452910
 Ion Ratio Lower Upper
 43 100
 58 35.9 28.6 42.8
 100 11.5 8.9 13.3





#42

Toluene

Concen: 22.871 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

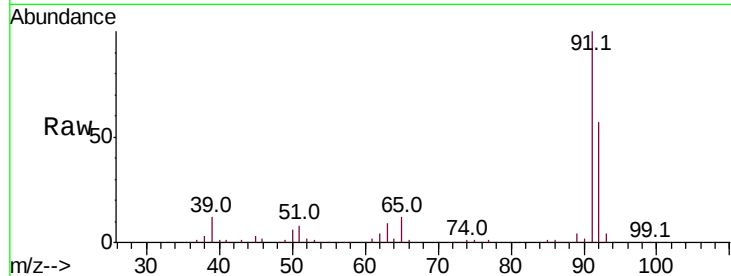
VSTD02001

Tot Ion: 91 Resp: 665451

Ion Ratio Lower Upper

91 100

92 56.9 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VU034620.D (-2015) (-)

Ion 92.15 (91.85 to 92.85): VU034620.D (-2015) (-)

7.61

400000

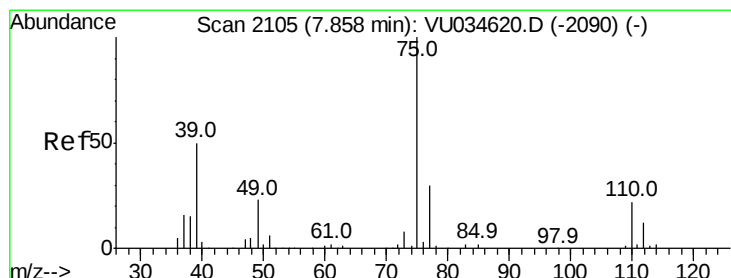
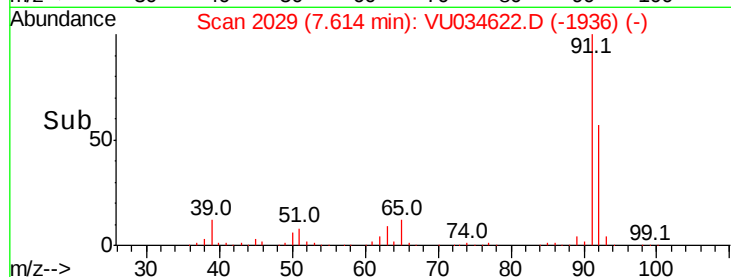
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 23.944 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034622.D

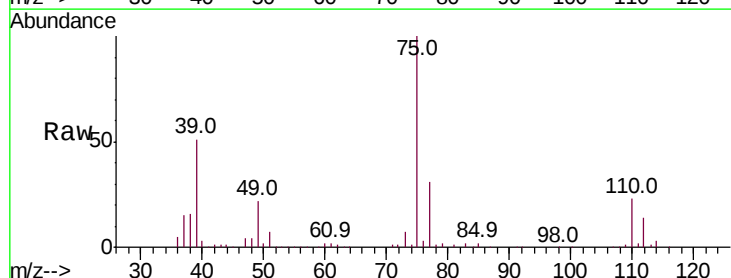
Acq: 17 Sep 2019 18:02

Tgt Ion: 75 Resp: 225010

Ion Ratio Lower Upper

75 100

77 31.2 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VU034620.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU034620.D (-2090) (-)

7.86

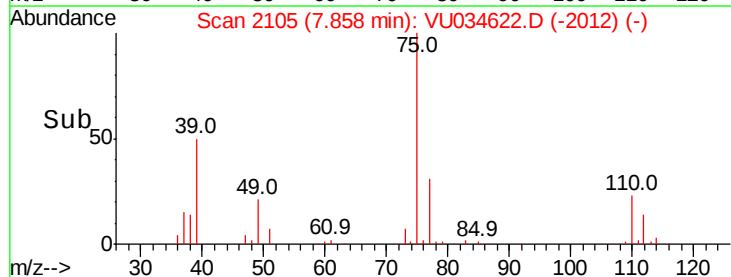
150000

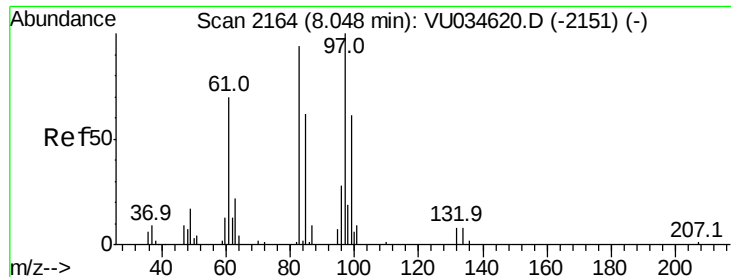
100000

50000

0

Time-->

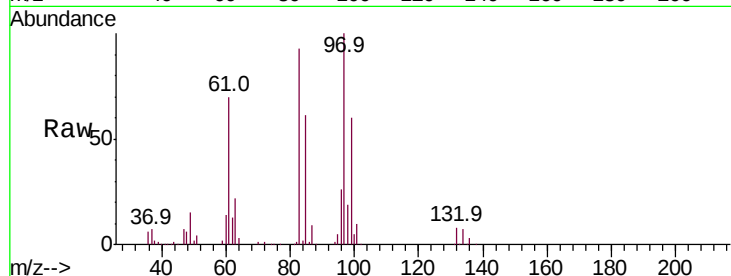




#45
 1,1,2-Trichloroethane
 Concen: 22.828 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD02001

Tot Ion:	97	Resp:	120746
Ion	Ratio	Lower	Upper
97	100		
99	60.3	42.5	78.9
83	92.7	65.9	122.5
85	61.4	43.5	80.9

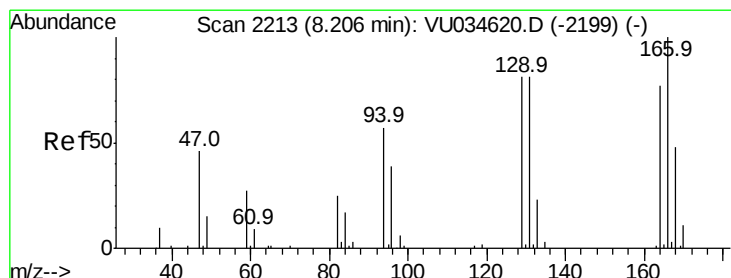
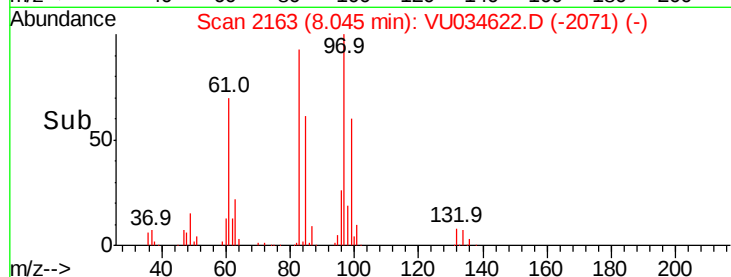
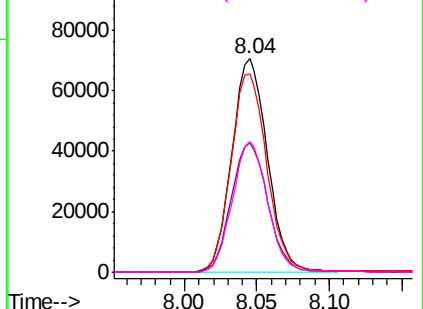


Abundance Ion 96.95 (96.65 to 97.65): VU034622.D (-2164) (-)

Ion 99.05 (98.75 to 99.75): VU034622.D (-2164) (-)

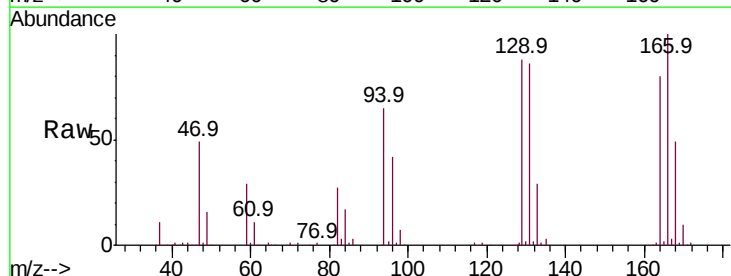
Ion 82.95 (82.65 to 83.65): VU034622.D (-2164) (-)

Ion 85.00 (84.70 to 85.70): VU034622.D (-2164) (-)



#47
 Tetrachloroethene
 Concen: 22.962 ug/L
 RT: 8.20 min Scan# 2212
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion:	164	Resp:	93343
Ion	Ratio	Lower	Upper
164	100		
129	110.5	73.6	136.8
131	107.6	73.4	136.4
166	125.3	90.6	168.3

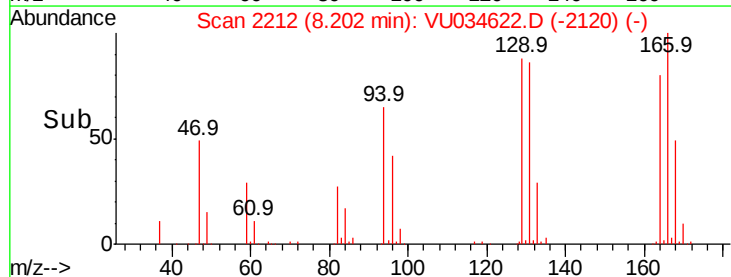
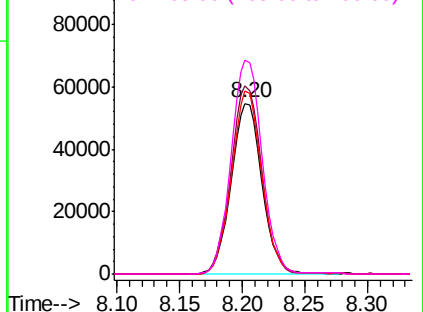


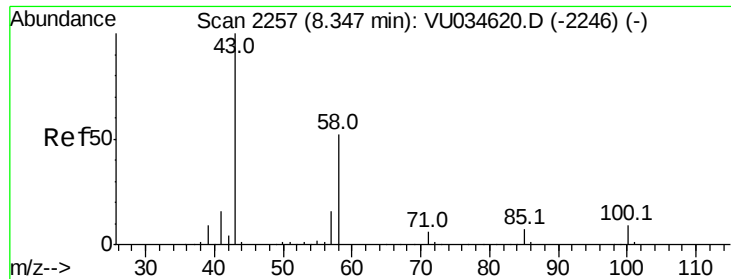
Abundance Ion 163.90 (163.60 to 164.60): VU034622.D (-2213) (-)

Ion 128.95 (128.65 to 129.65): VU034622.D (-2213) (-)

Ion 130.95 (130.65 to 131.65): VU034622.D (-2213) (-)

Ion 165.90 (165.60 to 166.60): VU034622.D (-2213) (-)

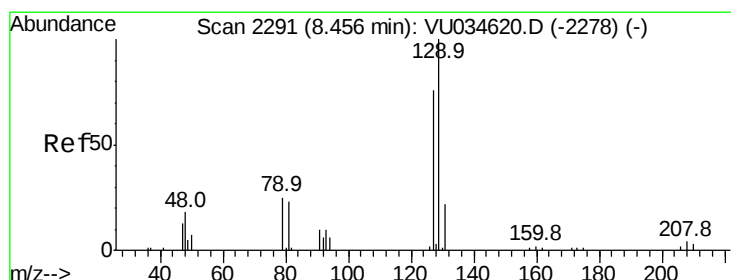
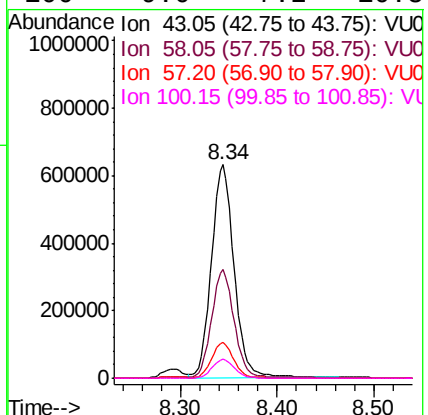
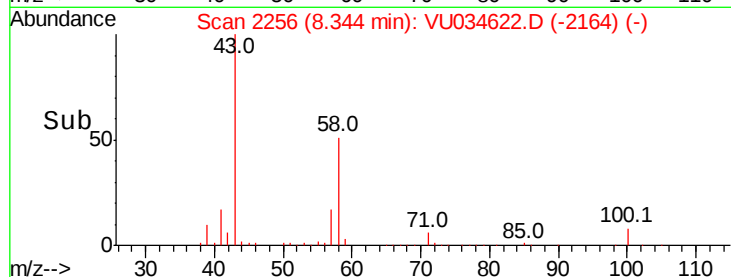
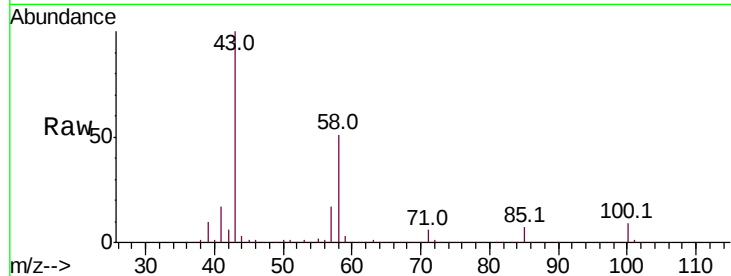




#48
2-Hexanone
Concen: 248.242 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU034622.D
Acq: 17 Sep 2019 18:02

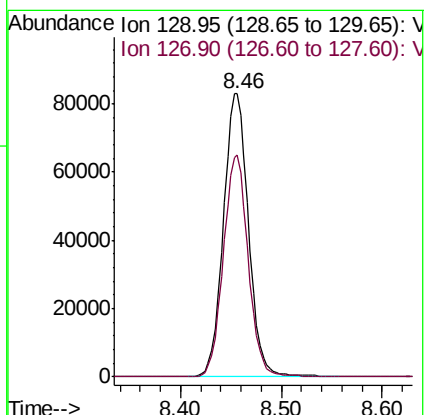
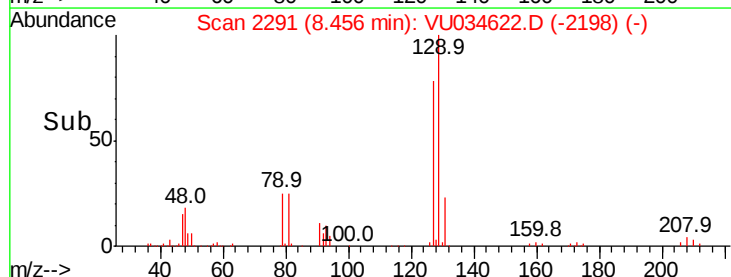
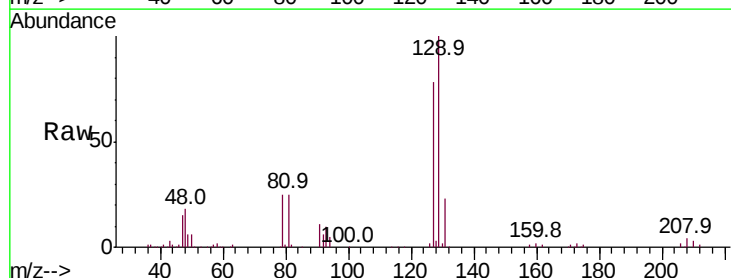
Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

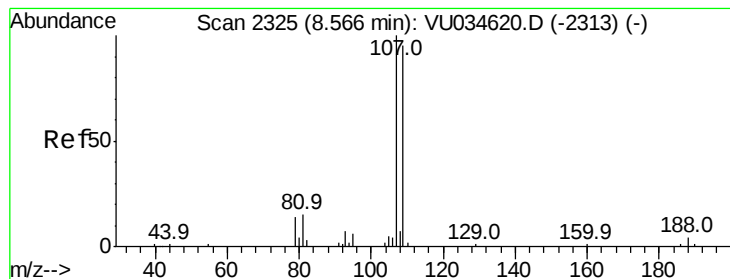
Tot Ion: 43 Resp: 1025834
Ion Ratio Lower Upper
43 100
58 50.7 41.2 61.8
57 16.8 13.3 19.9
100 9.0 7.2 10.8



#49
Dibromochloromethane
Concen: 23.398 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034622.D
Acq: 17 Sep 2019 18:02

Tgt Ion: 129 Resp: 144361
Ion Ratio Lower Upper
129 100
127 78.2 53.0 98.4





#50

1,2-Dibromoethane

Concen: 23.276 ug/L

RT: 8.57 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

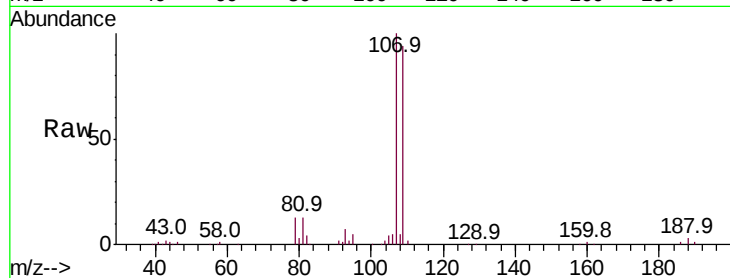
Tot Ion:107 Resp: 111766

Ion Ratio Lower Upper

107 100

109 93.9 66.3 123.1

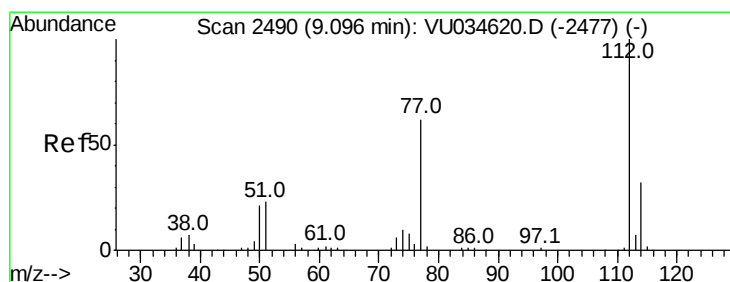
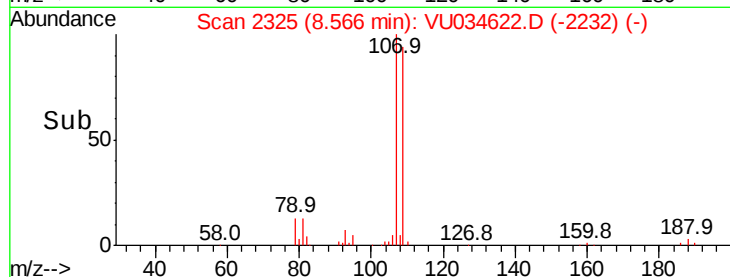
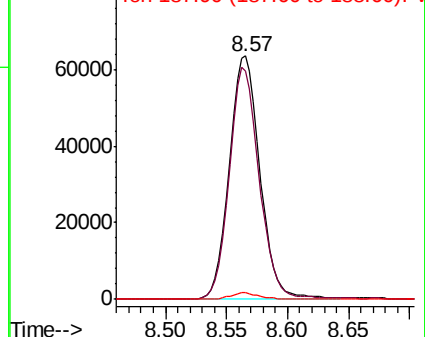
188 2.6 2.9 4.3#



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: 22.603 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

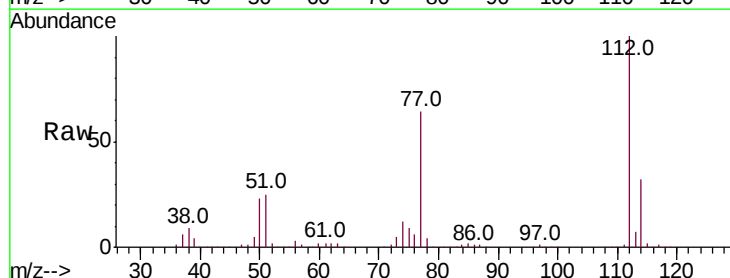
Tgt Ion:112 Resp: 413326

Ion Ratio Lower Upper

112 100

114 31.5 22.5 41.7

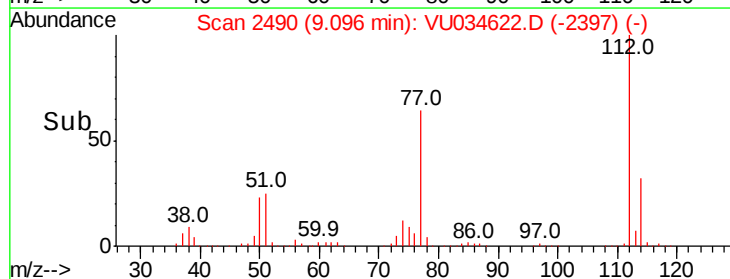
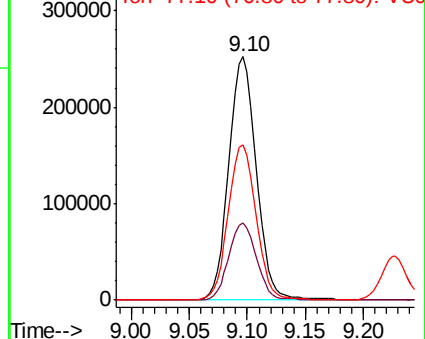
77 64.0 50.3 75.5

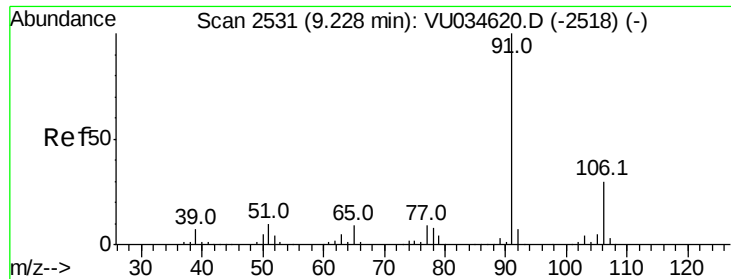


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 23.039 ug/L

RT: 9.22 min Scan# 2530

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

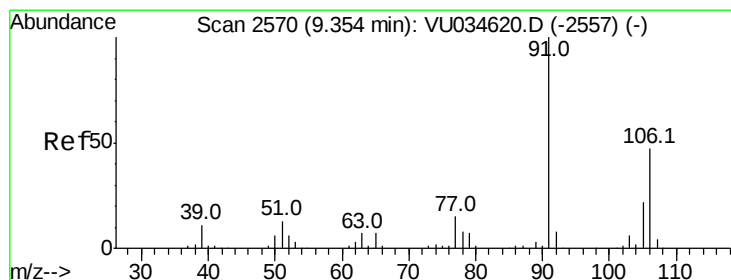
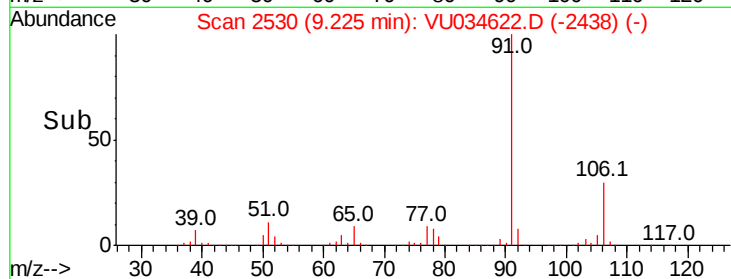
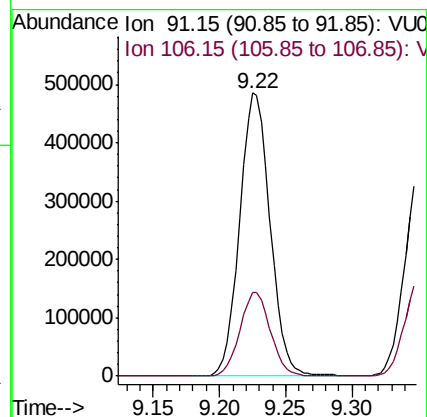
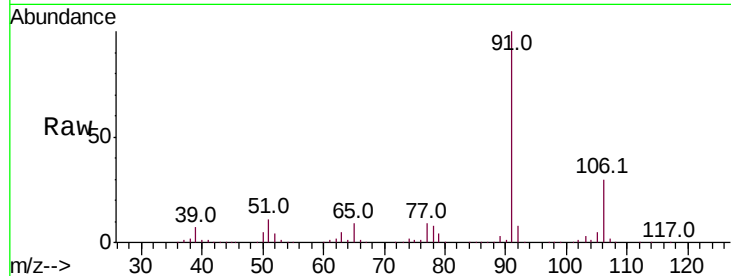
VSTD02001

Tot Ion: 91 Resp: 773723

Ion Ratio Lower Upper

91 100

106 29.5 20.9 38.7



#53

m,p-Xylene

Concen: 23.520 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034622.D

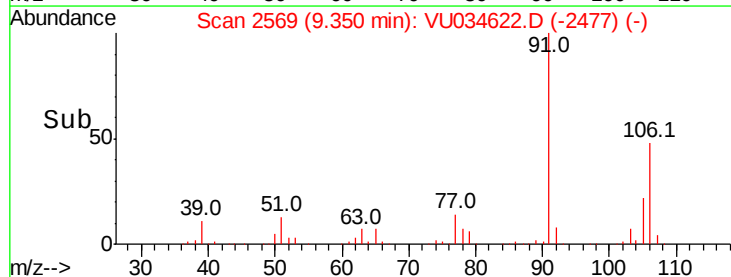
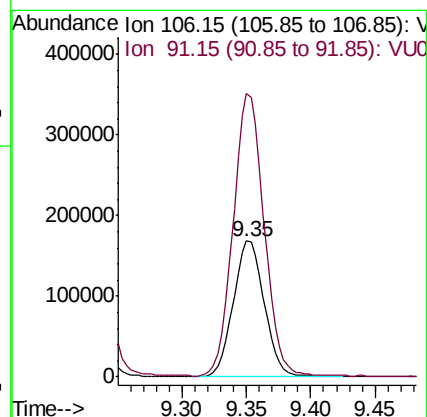
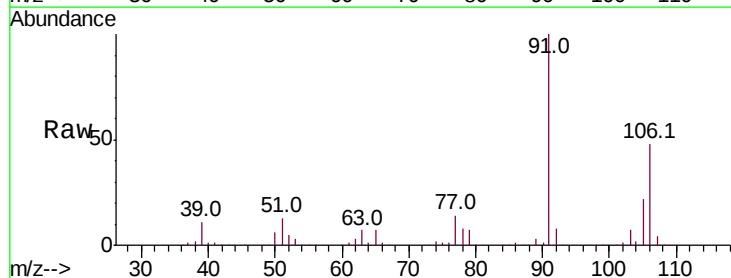
Acq: 17 Sep 2019 18:02

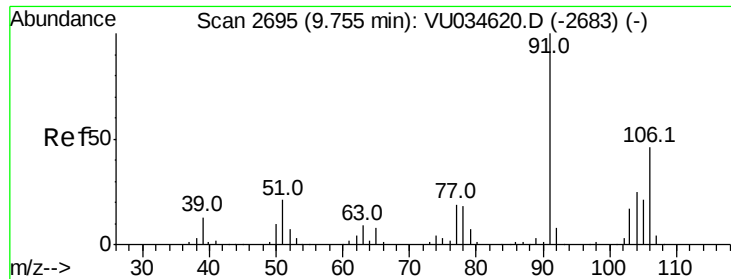
Tgt Ion: 106 Resp: 278809

Ion Ratio Lower Upper

106 100

91 208.4 147.8 274.4

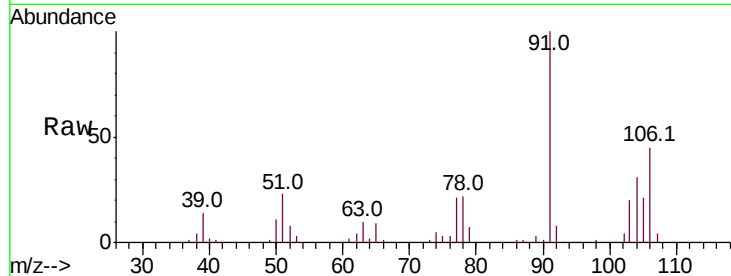




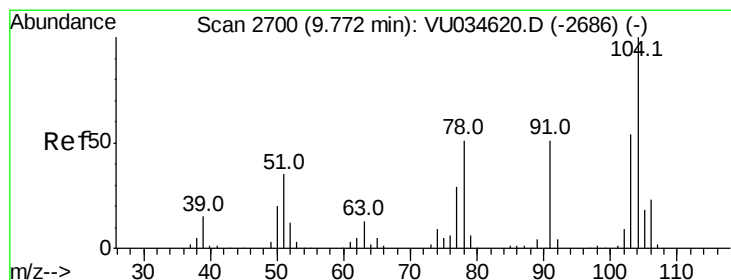
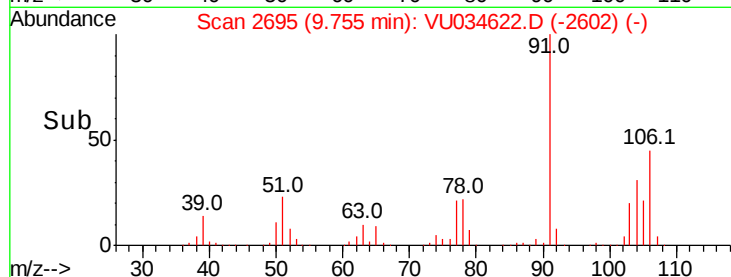
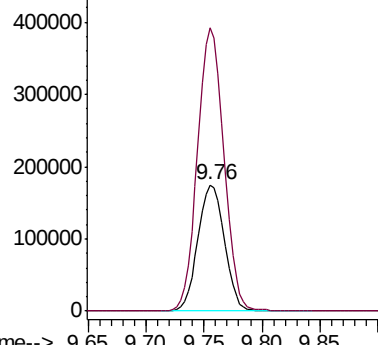
#54
o-Xylene
Concen: 23.206 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. -0.00 min
Lab File: VU034622.D
Acq: 17 Sep 2019 18:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD02001

Tot Ion:106 Resp: 277225
Ion Ratio Lower Upper
106 100
91 224.5 151.9 282.1

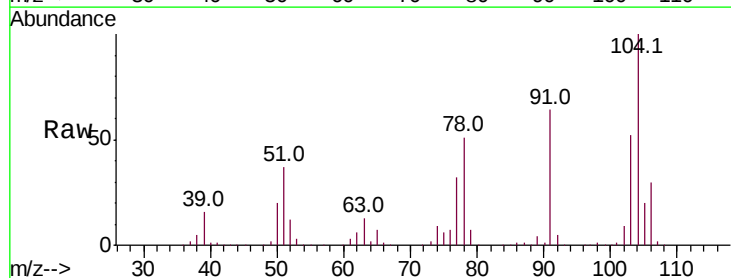


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

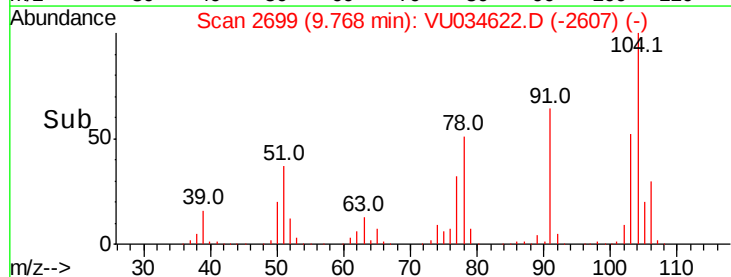
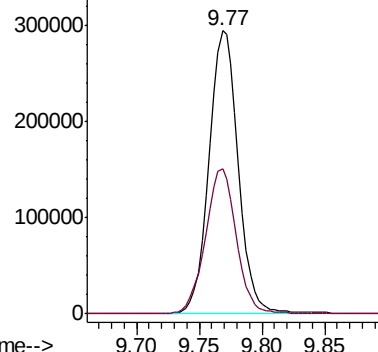


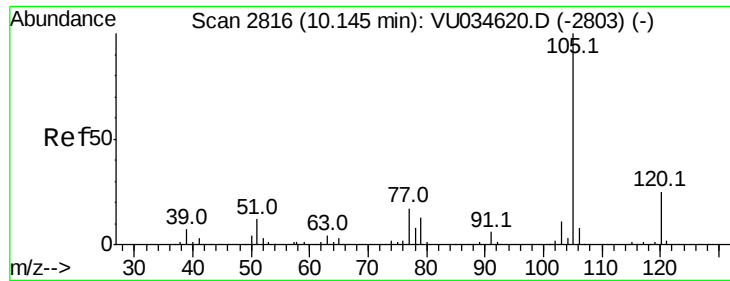
#55
Styrene
Concen: 24.263 ug/L
RT: 9.77 min Scan# 2699
Delta R.T. -0.00 min
Lab File: VU034622.D
Acq: 17 Sep 2019 18:02

Tgt Ion:104 Resp: 476528
Ion Ratio Lower Upper
104 100
78 51.5 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: 22.671 ug/L

RT: 10.14 min Scan# 2815

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

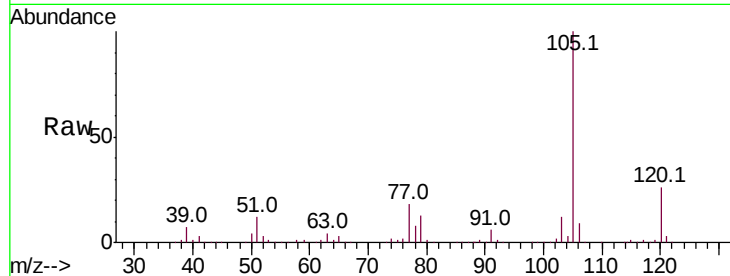
Tot Ion:105 Resp: 756263

Ion Ratio Lower Upper

105 100

120 25.6 19.8 29.6

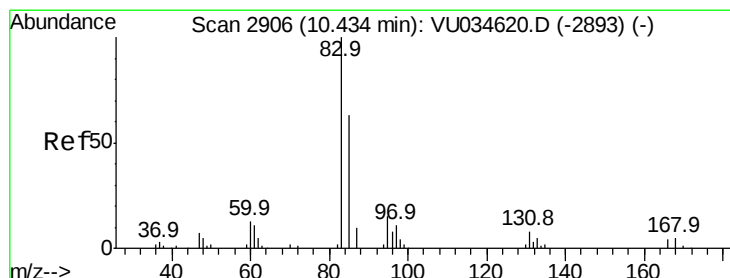
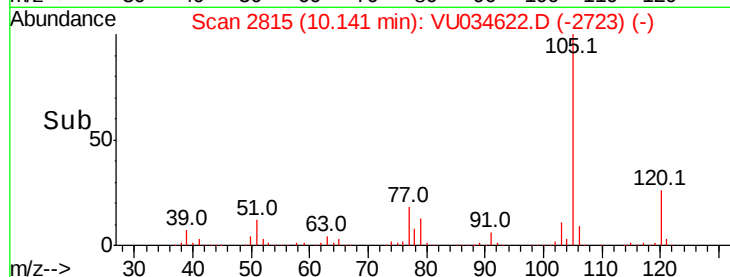
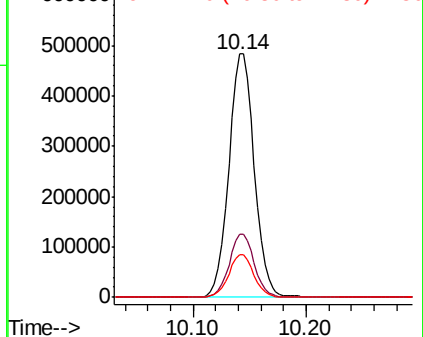
77 17.5 13.9 20.9



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: 23.406 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

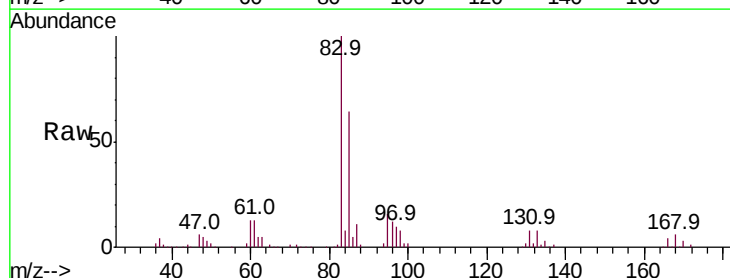
Tgt Ion: 83 Resp: 181754

Ion Ratio Lower Upper

83 100

85 63.9 44.4 82.4

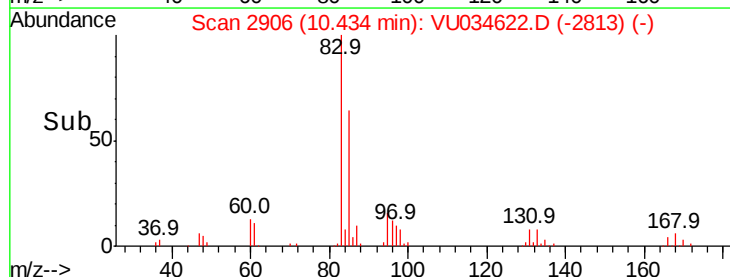
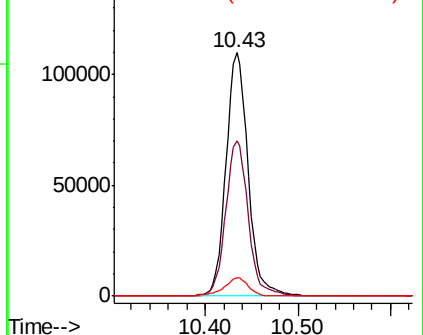
131 7.6 6.7 10.1

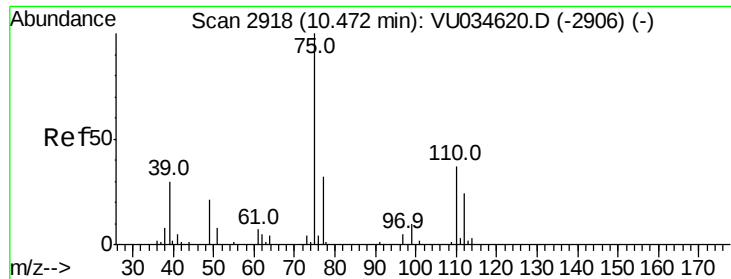


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 22.334 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

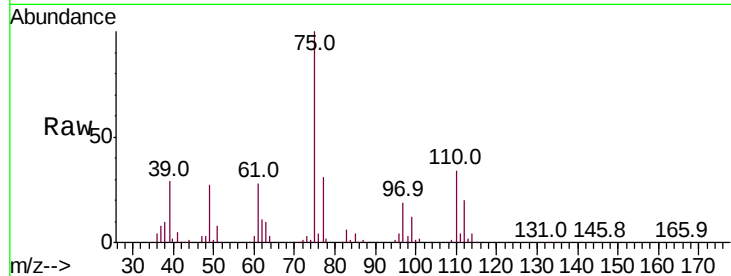
VSTD02001

Tot Ion: 75 Resp: 121925

Ion Ratio Lower Upper

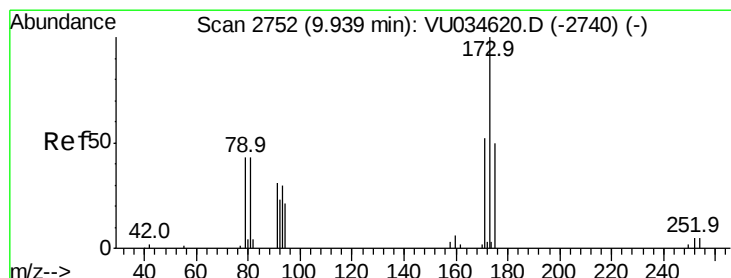
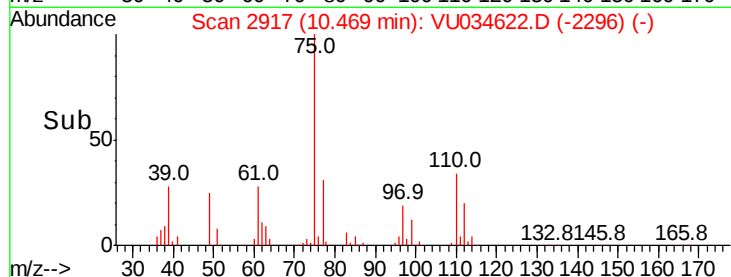
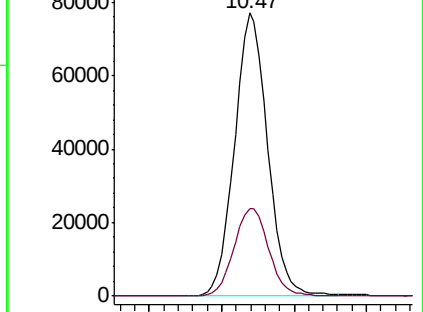
75 100

77 32.5 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU034622.D (-2296) (-)

Ion 77.00 (76.70 to 77.70): VU034622.D (-2296) (-)



#61

Bromoform

Concen: 23.723 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

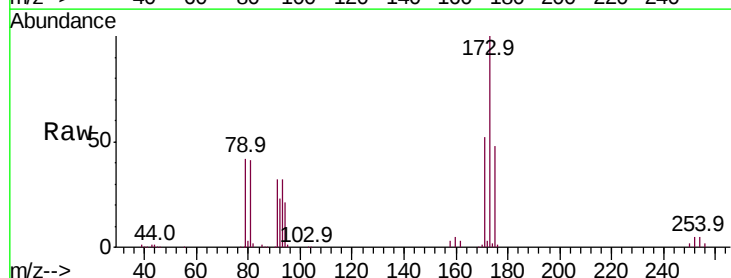
Tgt Ion: 173 Resp: 72968

Ion Ratio Lower Upper

173 100

175 47.0 40.0 60.0

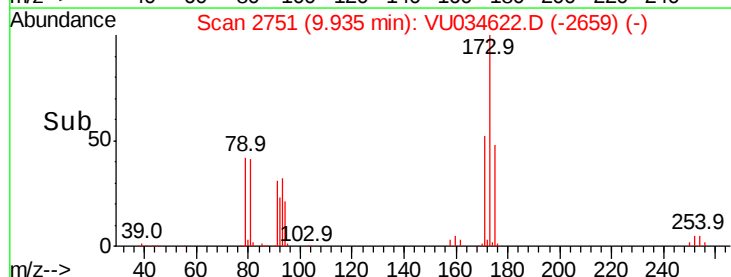
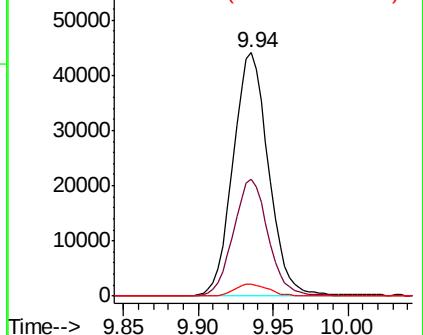
254 4.6 3.5 5.3

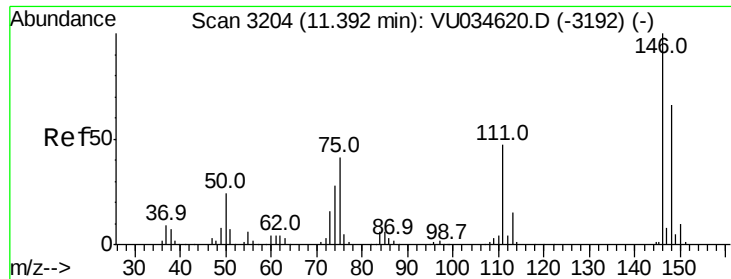


Abundance Ion 172.90 (172.60 to 173.60): VU034622.D (-2659) (-)

Ion 174.90 (174.60 to 175.60): VU034622.D (-2659) (-)

Ion 253.75 (253.45 to 254.45): VU034622.D (-2659) (-)

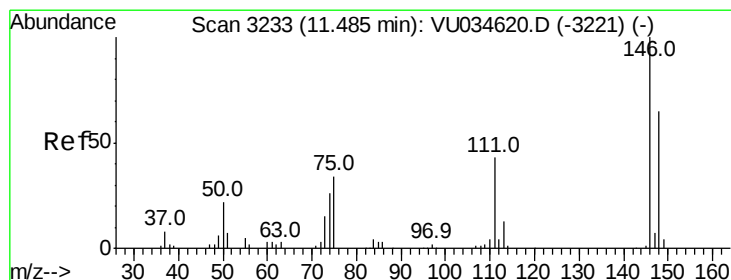
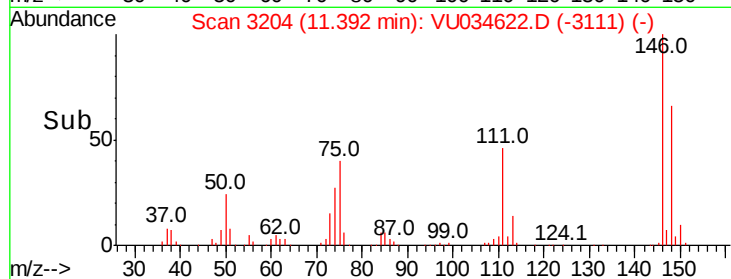
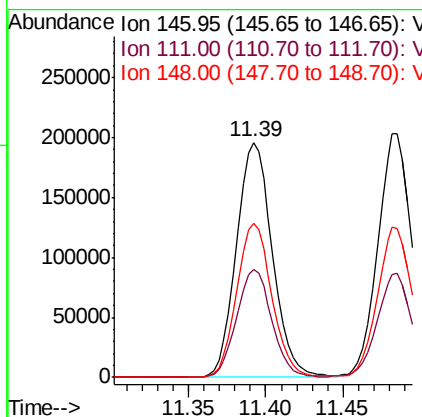
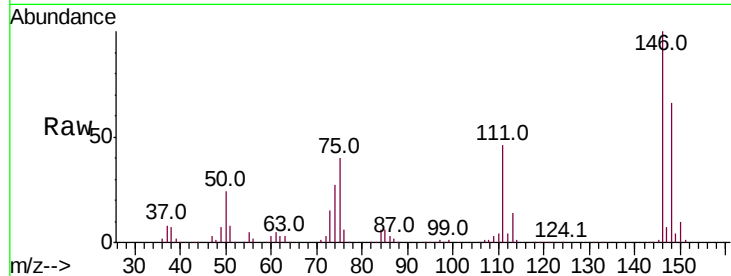




#62
 1,3-Dichlorobenzene
 Concen: 22.968 ug/L
 RT: 11.39 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

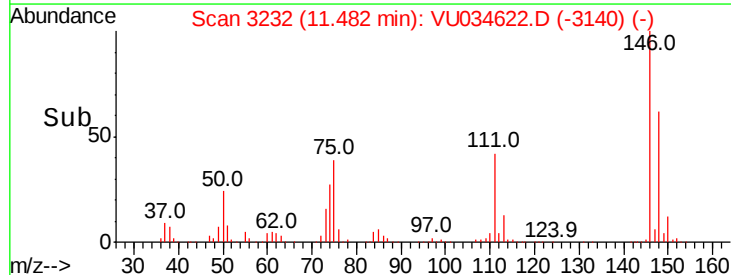
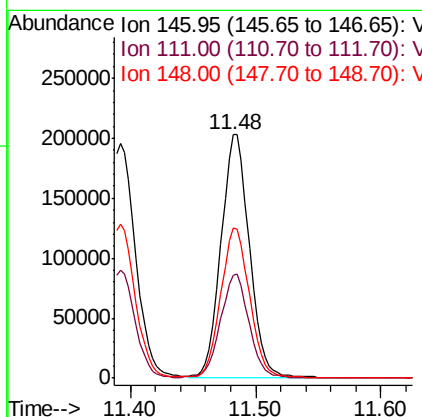
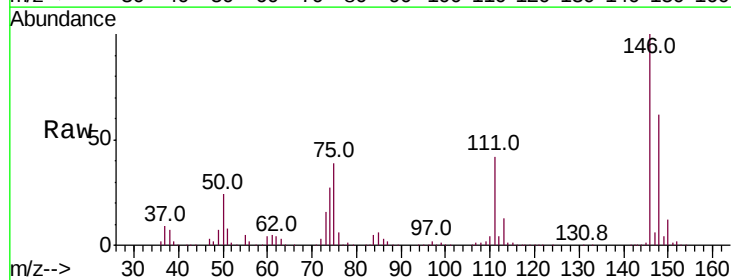
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

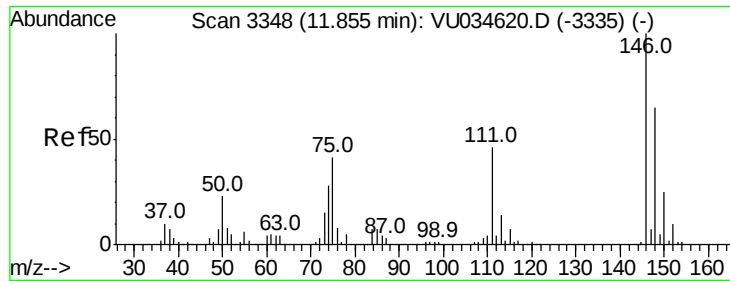
Tot Ion:146 Resp: 316288
 Ion Ratio Lower Upper
 146 100
 111 46.1 32.8 61.0
 148 65.8 45.9 85.3



#63
 1,4-Dichlorobenzene
 Concen: 23.220 ug/L
 RT: 11.48 min Scan# 3232
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion:146 Resp: 318445
 Ion Ratio Lower Upper
 146 100
 111 42.4 30.2 56.2
 148 61.8 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 22.449 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

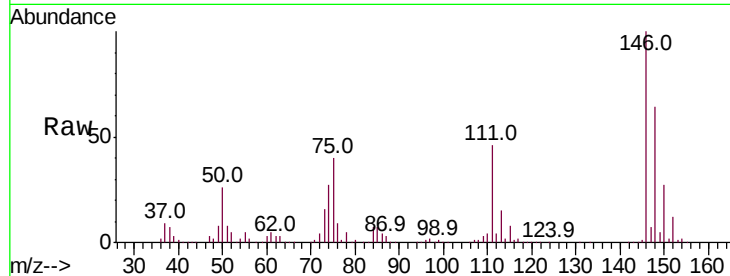
Tot Ion:146 Resp: 304122

Ion Ratio Lower Upper

146 100

111 45.9 37.1 55.7

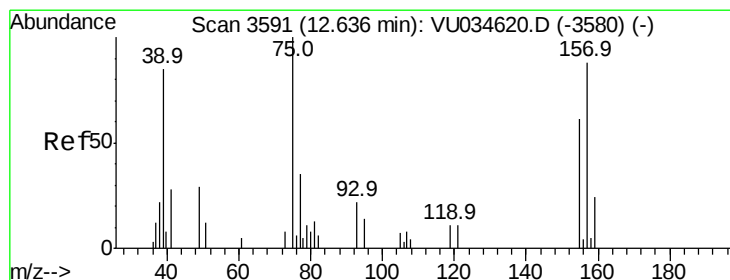
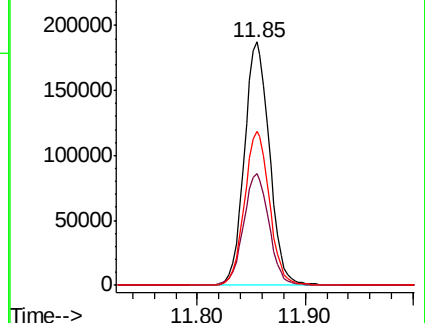
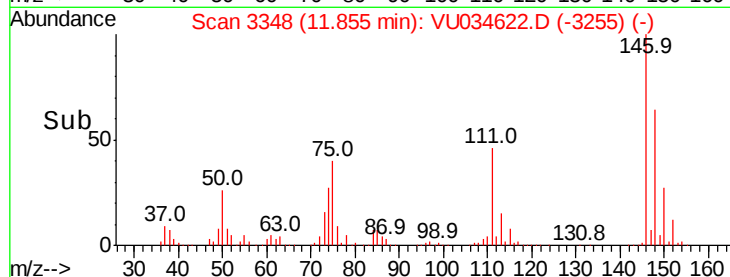
148 63.5 51.8 77.6



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: 24.827 ug/L

RT: 12.63 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

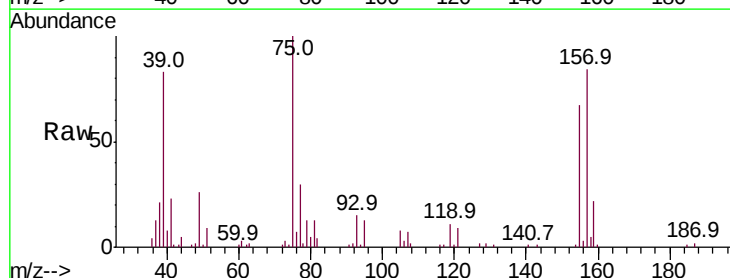
Tgt Ion: 75 Resp: 29768

Ion Ratio Lower Upper

75 100

155 67.3 49.1 73.7

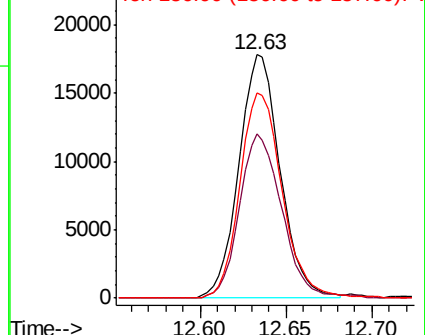
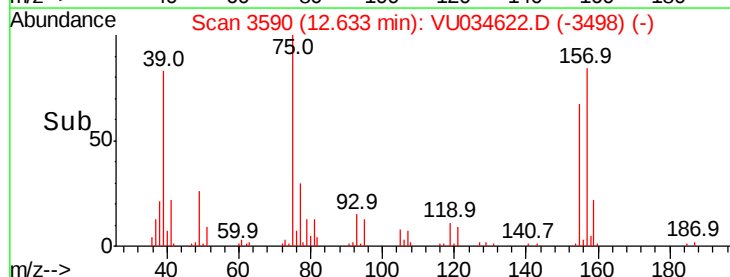
157 84.1 70.8 106.2

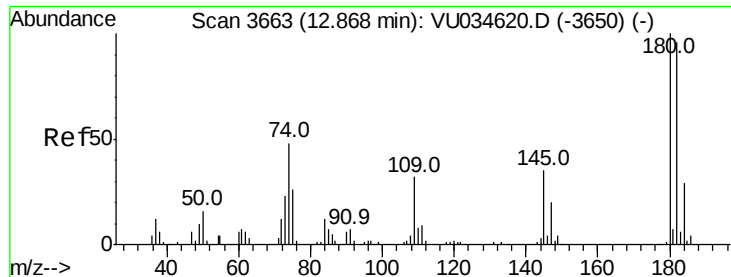


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

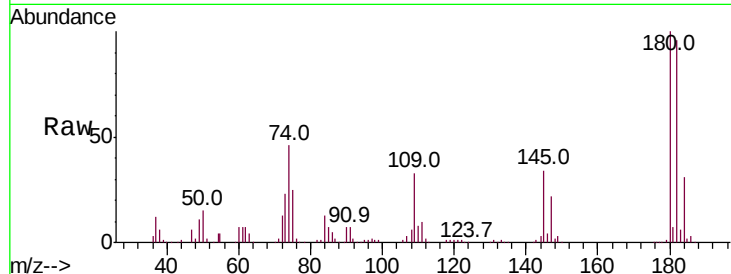




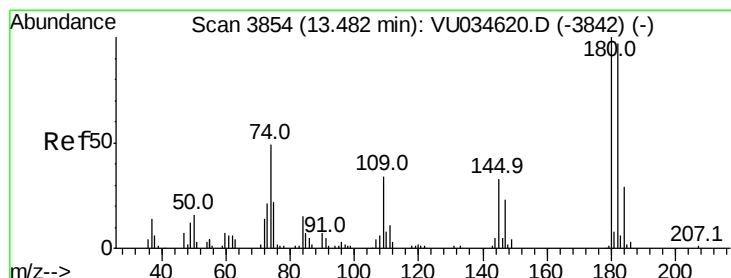
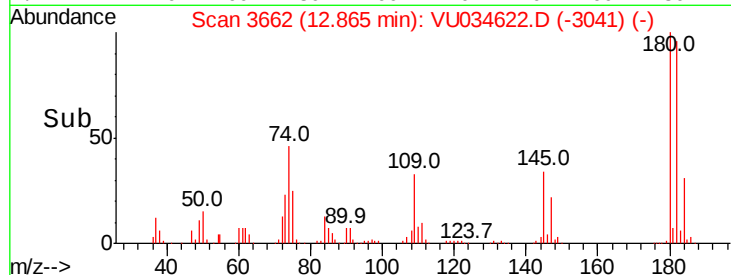
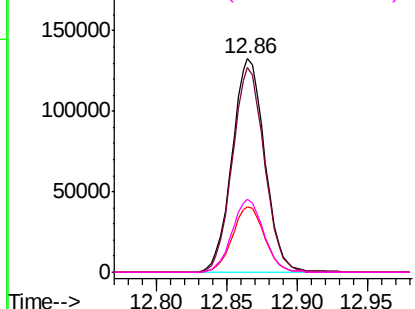
#67
 1,3,5-Trichlorobenzene
 Concen: 24.107 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02001

Tot Ion:	180	Resp:	214617
Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.5	111.7
184	30.4	23.4	35.2
145	33.2	27.0	40.4

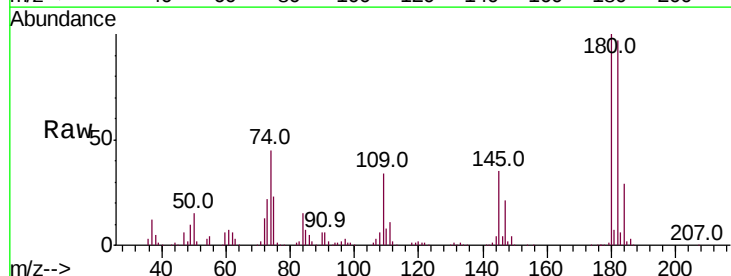


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

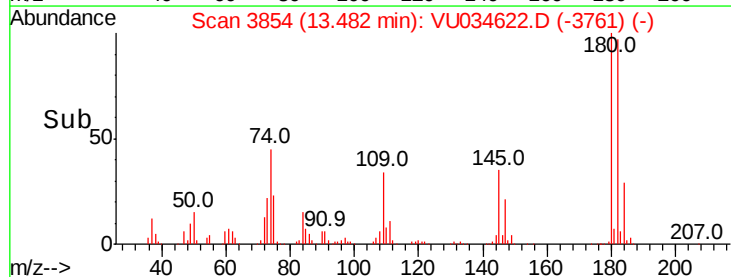
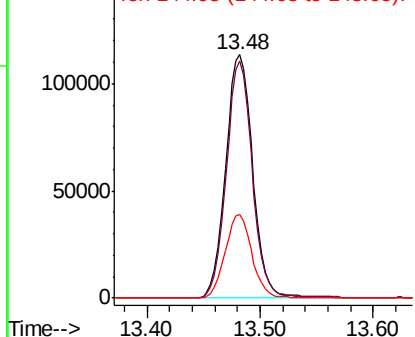


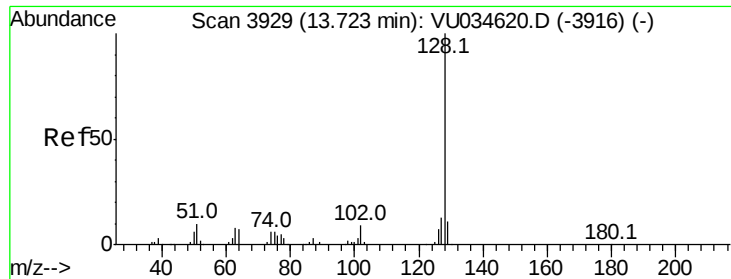
#68
 1,2,4-trichlorobenzene
 Concen: 27.408 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034622.D
 Acq: 17 Sep 2019 18:02

Tgt Ion:	180	Resp:	188583
Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.9	115.3
145	34.0	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: 25.134 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD02001

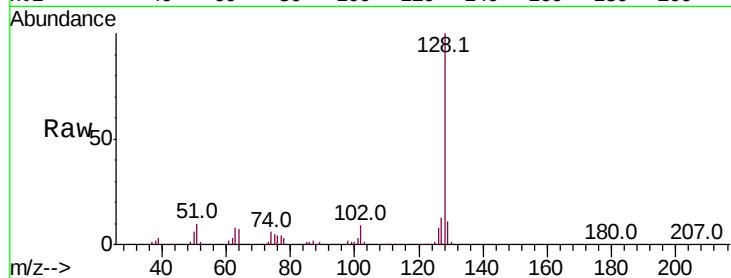
Tot Ion:128 Resp: 430255

Ion Ratio Lower Upper

128 100

129 10.6 9.2 13.8

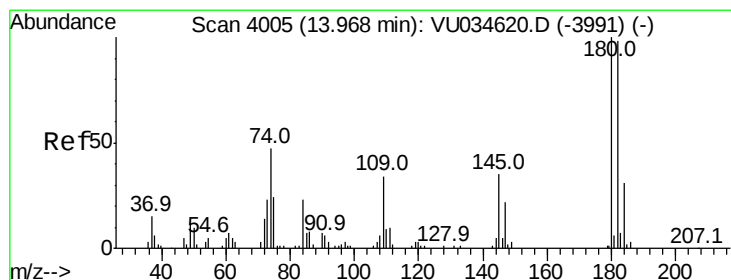
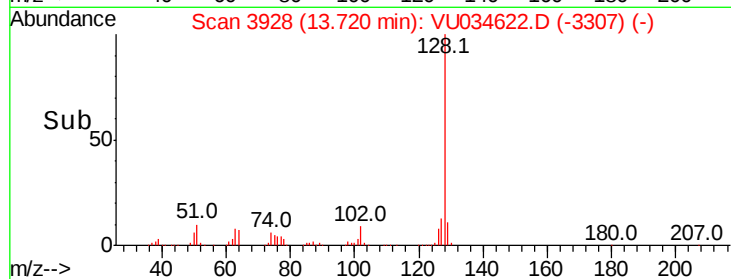
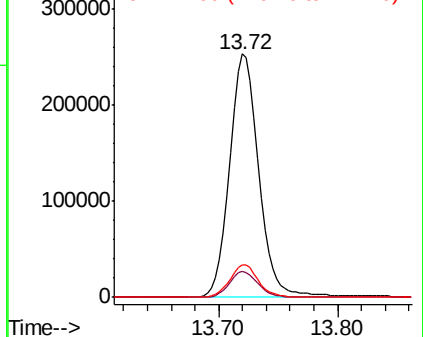
127 13.2 10.7 16.1



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: 25.874 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. -0.00 min

Lab File: VU034622.D

Acq: 17 Sep 2019 18:02

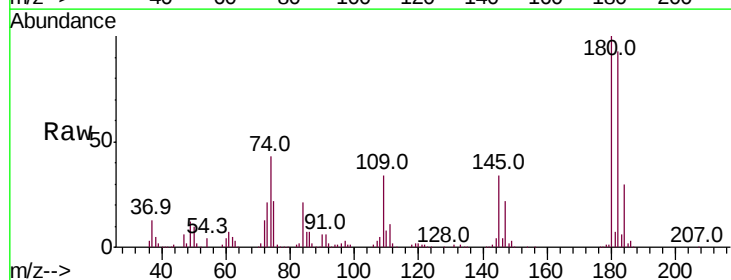
Tgt Ion:180 Resp: 169187

Ion Ratio Lower Upper

180 100

182 93.5 76.6 114.8

145 35.3 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

