

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
 Data File : VU035202.D
 Acq On : 17 Oct 2019 10:02
 Operator : JC/SP
 Sample : VSTD00101
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00101

Quant Time: Oct 18 02:11:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 02:07:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.30	114	403942	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	383614	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	165477	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	23283	0.96	ug/L	0.00
7) Chloroethane-d5	1.93	69	20308	0.91	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	43061	0.86	ug/L	0.00
20) 2-Butanone-d5	4.72	46	64057	8.93	ug/L	0.00
24) Chloroform-d	5.12	84	41506	0.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.76	65	24164	0.90	ug/L	0.00
32) Benzene-d6	5.77	84	82276	0.90	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	26275	0.87	ug/L	0.00
41) Toluene-d8	7.93	98	77903	0.89	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	12735	1.10	ug/L	0.00
46) 2-Hexanone-d5	8.69	63	52089	9.68	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	22388	0.87	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	26664	0.94	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	34465	0.943 ug/L	99
3) Chloromethane	1.53	50	33584	0.855 ug/L	97
5) Vinyl chloride	1.62	62	34198	0.879 ug/L	99
6) Bromomethane	1.88	94	19290	0.876 ug/L	98
8) Chloroethane	1.95	64	22585	0.963 ug/L	99
9) Trichlorofluoromethane	2.16	101	46006	0.958 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	26964	0.969 ug/L	98
12) 1,1-Dichloroethene	2.61	96	25120	0.968 ug/L	88
13) Acetone	2.70	43	50856	8.977 ug/L	92
14) Carbon disulfide	2.83	76	82104	0.960 ug/L	100
15) Methyl Acetate	3.01	43	12133	0.821 ug/L	100
16) Methylene chloride	3.09	84	31551	0.988 ug/L	97
17) Methyl tert-butyl Ether	3.43	73	70171	0.985 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	27696	0.989 ug/L	92
19) 1,1-Dichloroethane	3.92	63	52117	0.957 ug/L	98
21) 2-Butanone	4.81	43	79290	9.724 ug/L	93
22) cis-1,2-Dichloroethene	4.72	96	31453	1.007 ug/L	94
23) Bromochloromethane	5.03	128	13229	1.015 ug/L	98
25) Chloroform	5.14	83	57778	0.949 ug/L	93
27) 1,2-Dichloroethane	5.84	62	34245	0.950 ug/L	99
29) 1,1,1-Trichloroethane	5.37	97	45651	1.046 ug/L	98
30) Cyclohexane	5.43	56	49252	1.032 ug/L	97
31) Carbon tetrachloride	5.57	117	39694	1.046 ug/L	99
33) Benzene	5.82	78	111009	0.960 ug/L	100
34) Trichloroethene	6.58	95	31288	1.044 ug/L	95
35) Methylcyclohexane	6.80	83	49863	1.020 ug/L	99
37) 1,2-Dichloropropane	6.84	63	28919	0.939 ug/L	99
38) Bromodichloromethane	7.15	83	38925	1.049 ug/L	98
39) cis-1,3-Dichloropropene	7.65	75	47287	1.086 ug/L	97
40) 4-Methyl-2-pentanone	7.85	43	184128	9.342 ug/L	99

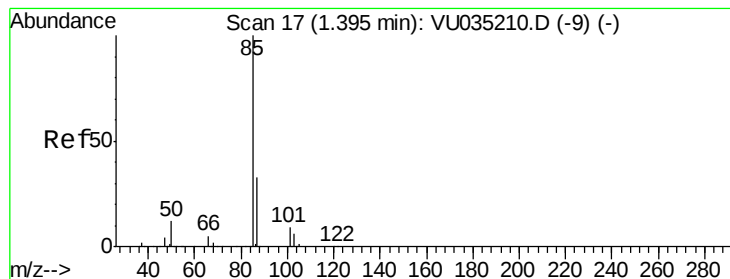
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
 Data File : VU035202.D
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 02:07:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	125489	1.035	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	37750	1.110	ug/L	96
45) 1,1,2-Trichloroethane	8.44	97	21437	1.025	ug/L	97
47) Tetrachloroethene	8.58	164	24714	1.012	ug/L	95
48) 2-Hexanone	8.74	43	129306	9.531	ug/L	98
49) Dibromochloromethane	8.84	129	26794	1.091	ug/L	98
50) 1,2-Dibromoethane	8.96	107	21720	1.078	ug/L	98
51) Chlorobenzene	9.48	112	80039	1.014	ug/L	98
52) Ethylbenzene	9.60	91	139431	1.032	ug/L	99
53) m,p-Xylene	9.73	106	52910	1.057	ug/L	98
54) o-Xylene	10.13	106	51611	1.054	ug/L	99
55) Styrene	10.15	104	80522	1.014	ug/L	97
56) Isopropylbenzene	10.51	105	136779	1.044	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.82	83	26858	0.954	ug/L	93
59) 1,2,3-Trichloropropane	10.86	75	19408	0.955	ug/L	96
61) Bromoform	10.32	173	16007	1.314	ug/L	99
62) 1,3-Dichlorobenzene	11.78	146	55138	1.064	ug/L	99
63) 1,4-Dichlorobenzene	11.87	146	54877	1.052	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	51804	1.042	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.03	75	3315	1.044	ug/L	96
67) 1,3,5-Trichlorobenzene	13.25	180	28272	0.819	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	12731	0.509	ug/L	98
69) Naphthalene	14.11	128	15307	0.409	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	12187	0.504	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 0.943 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

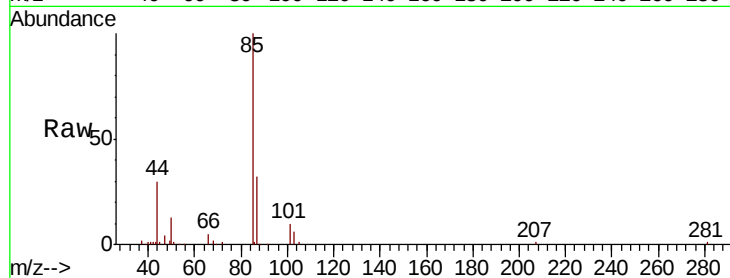
VSTD00101

Tot Ion: 85 Resp: 34465

Ion Ratio Lower Upper

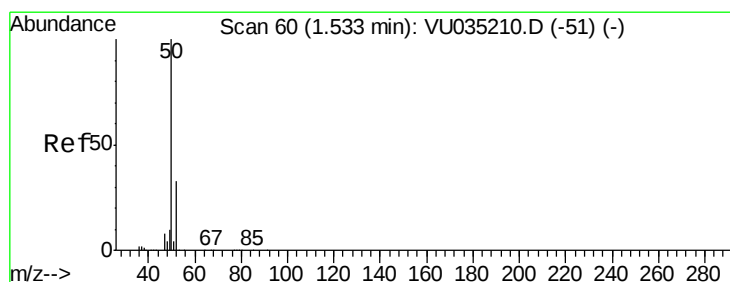
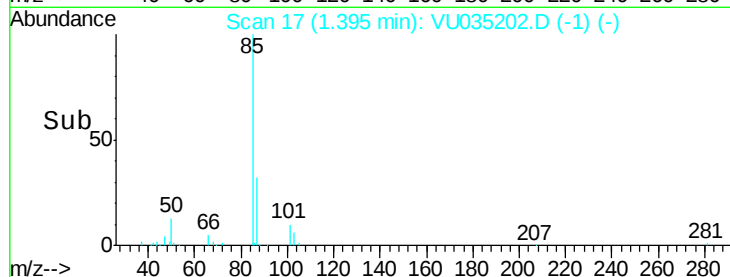
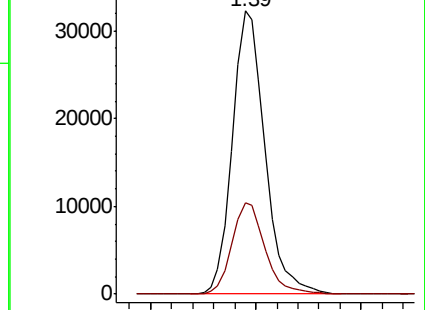
85 100

87 32.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU035202.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU035202.D (-1) (-)



#3

Chloromethane

Concen: 0.855 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU035202.D

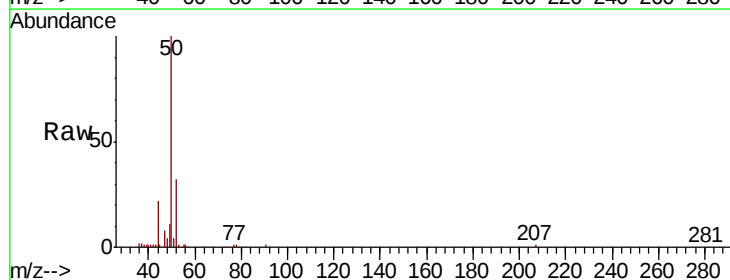
Acq: 17 Oct 2019 10:02

Tgt Ion: 50 Resp: 33584

Ion Ratio Lower Upper

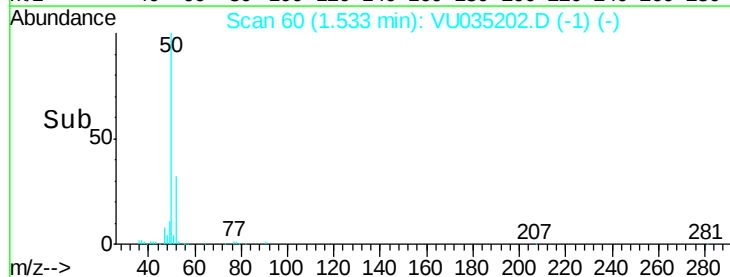
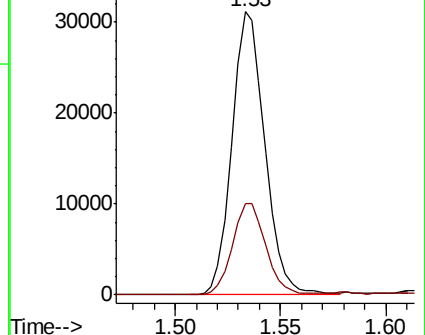
50 100

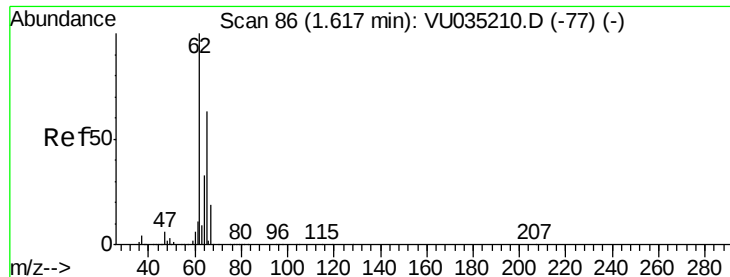
52 32.1 23.5 43.7



Abundance Ion 50.05 (49.75 to 50.75): VU035202.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU035202.D (-1) (-)





#5

Vinyl chloride

Concen: 0.879 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

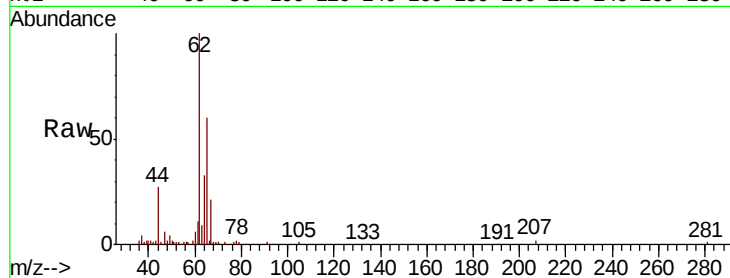
VSTD00101

Tot Ion: 62 Resp: 34198

Ion Ratio Lower Upper

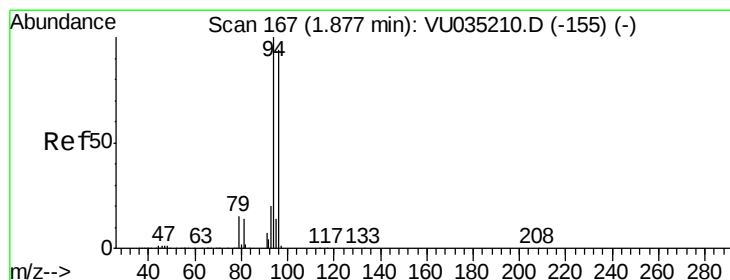
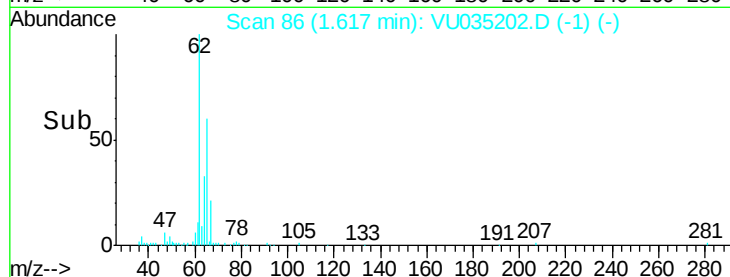
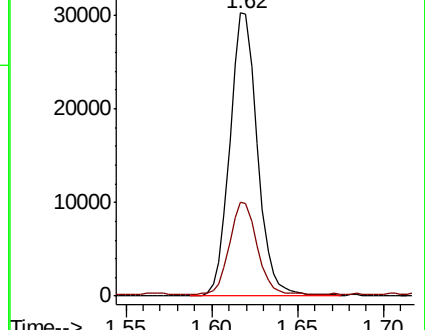
62 100

64 33.3 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU035202.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU035202.D (-1) (-)



#6

Bromomethane

Concen: 0.876 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035202.D

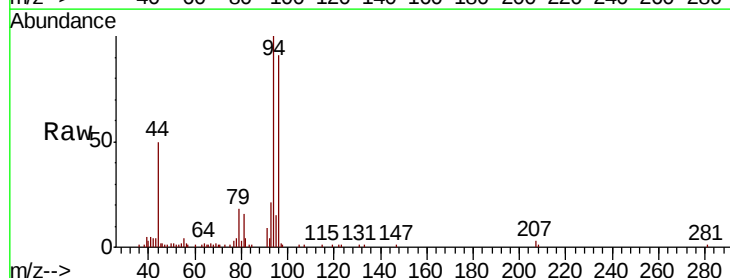
Acq: 17 Oct 2019 10:02

Tgt Ion: 94 Resp: 19290

Ion Ratio Lower Upper

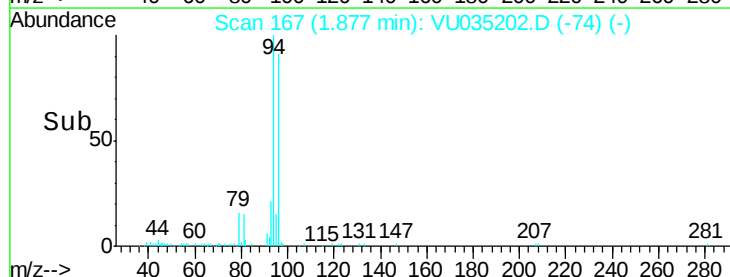
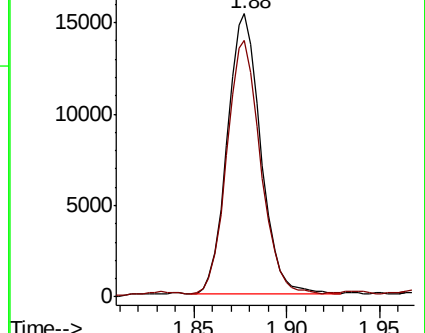
94 100

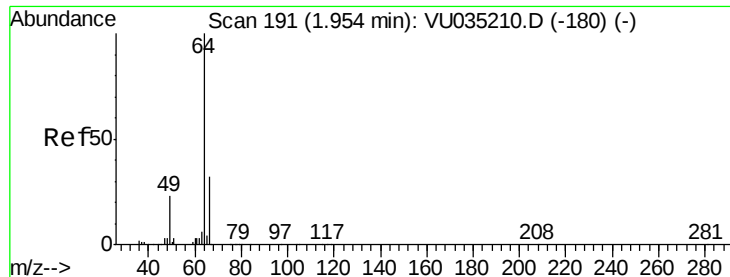
96 90.6 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU035202.D (-74) (-)

Ion 96.00 (95.70 to 96.70): VU035202.D (-74) (-)





#8

Chloroethane

Concen: 0.963 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

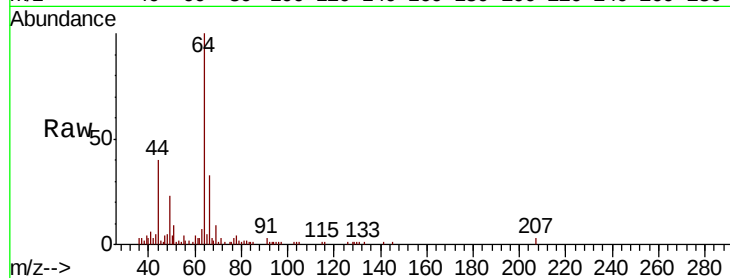
VSTD00101

Tot Ion: 64 Resp: 22585

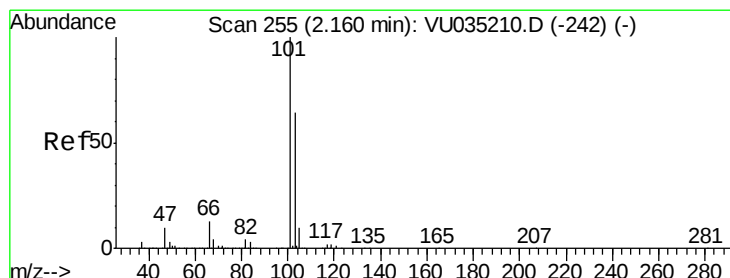
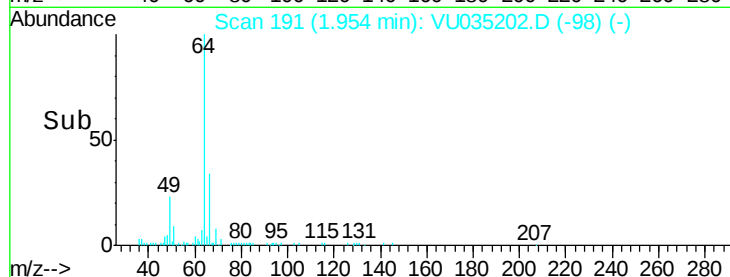
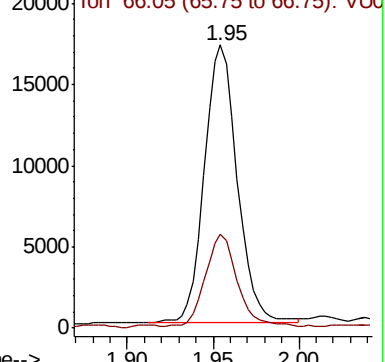
Ion Ratio Lower Upper

64 100

66 33.2 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU035202.D (-98) (-)



#9

Trichlorofluoromethane

Concen: 0.958 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU035202.D

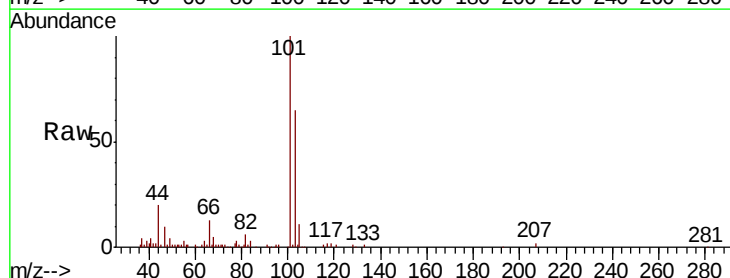
Acq: 17 Oct 2019 10:02

Tgt Ion: 101 Resp: 46006

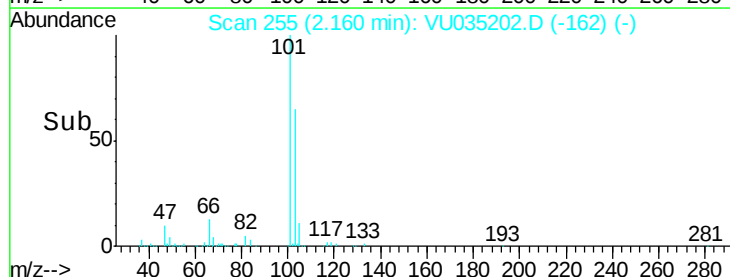
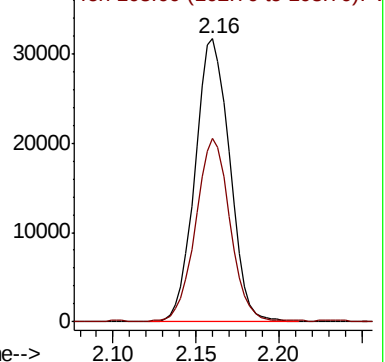
Ion Ratio Lower Upper

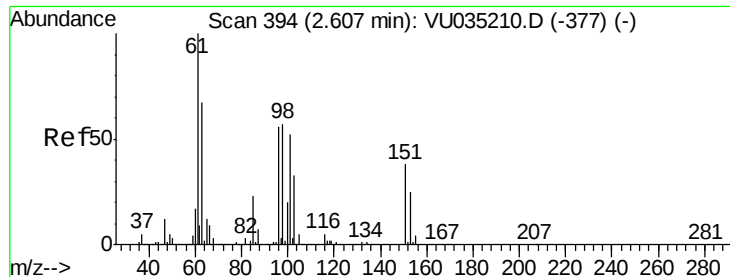
101 100

103 64.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU035202.D (-162) (-)





#10

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

Concen: 0.969 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

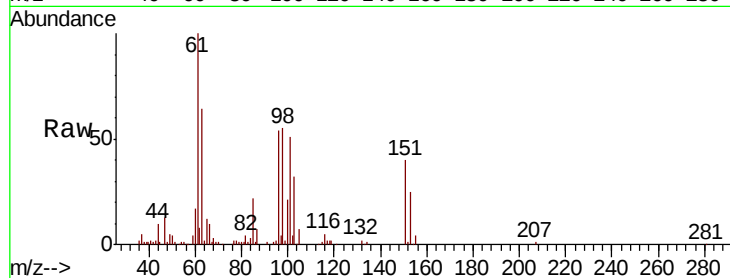
Tot Ion:101 Resp: 26964

Ion Ratio Lower Upper

101 100

85 43.3 33.9 50.9

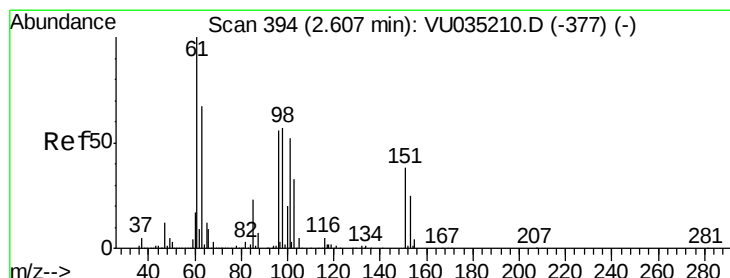
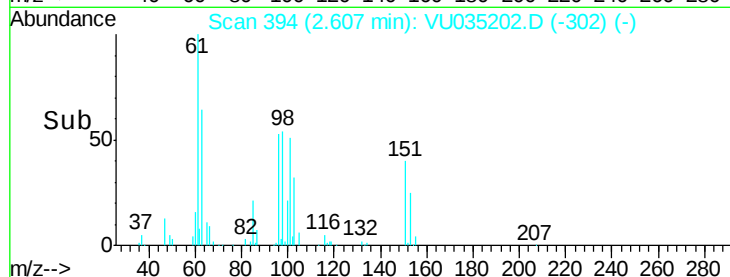
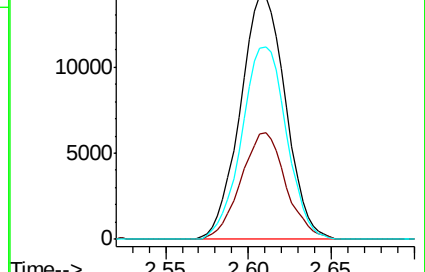
151 77.9 61.0 91.4



Abundance Ion 101.00 (100.70 to 101.70): VU035210.D (-377) (-)

Ion 85.00 (84.70 to 85.70): VU035210.D (-377) (-)

Ion 151.00 (150.70 to 151.70): VU035210.D (-377) (-)



#12

1,1-Dichloroethene

Concen: 0.968 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

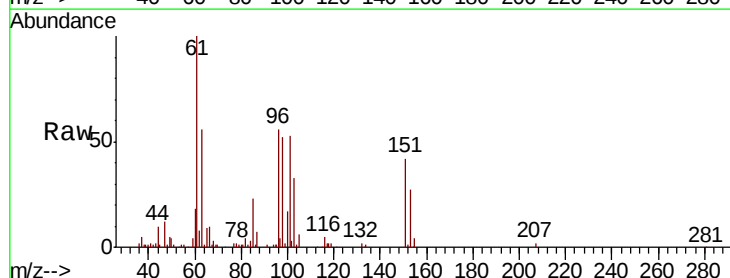
Tgt Ion: 96 Resp: 25120

Ion Ratio Lower Upper

96 100

61 177.8 120.6 224.0

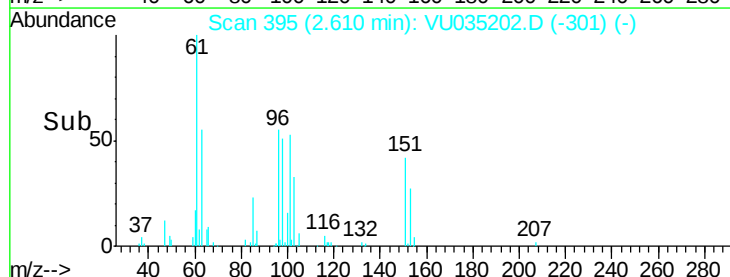
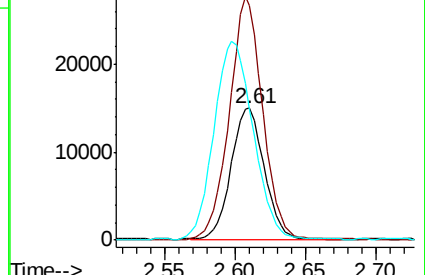
63 98.9 86.8 161.2

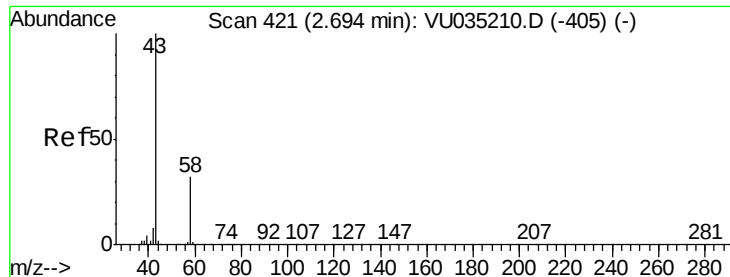


Abundance Ion 96.00 (95.70 to 96.70): VU035210.D (-377) (-)

Ion 61.05 (60.75 to 61.75): VU035210.D (-377) (-)

Ion 63.00 (62.70 to 63.70): VU035210.D (-377) (-)





#13

Acetone

Concen: 8.977 ug/L

RT: 2.70 min Scan# 424

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

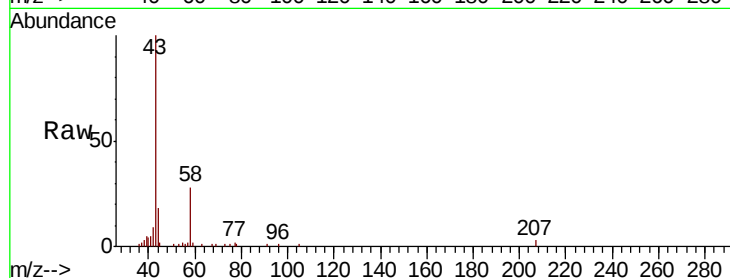
VSTD00101

Tot Ion: 43 Resp: 50856

Ion Ratio Lower Upper

43 100

58 26.4 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035202.D (-331) (-)

Ion 58.05 (57.75 to 58.75): VU035202.D (-331) (-)

2.70

15000

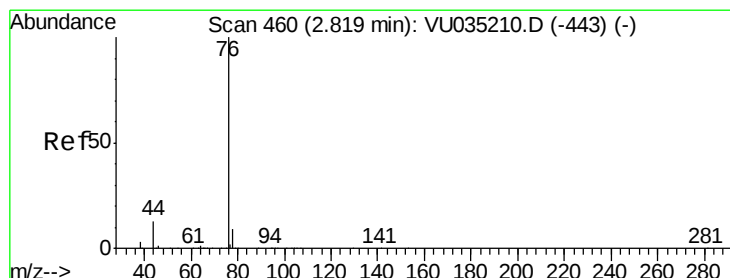
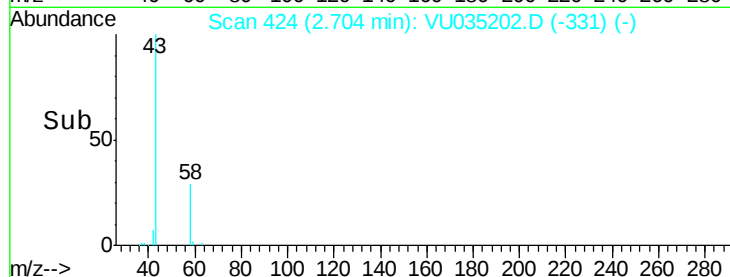
10000

5000

0

Time-->

2.60 2.70 2.80 2.90



#14

Carbon disulfide

Concen: 0.960 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035202.D

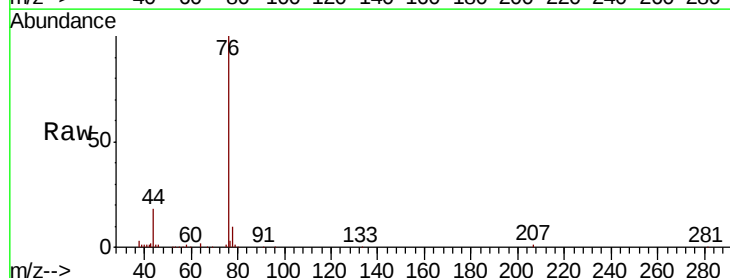
Acq: 17 Oct 2019 10:02

Tgt Ion: 76 Resp: 82104

Ion Ratio Lower Upper

76 100

78 9.5 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU035202.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VU035202.D (-369) (-)

2.83

50000

40000

30000

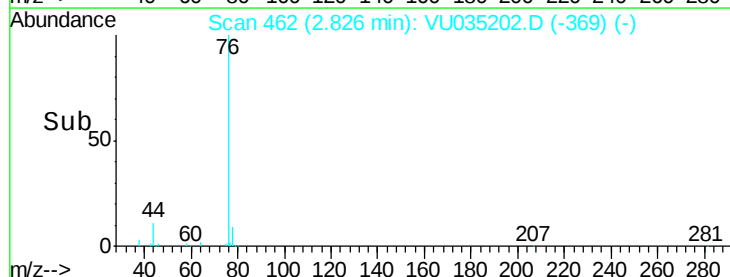
20000

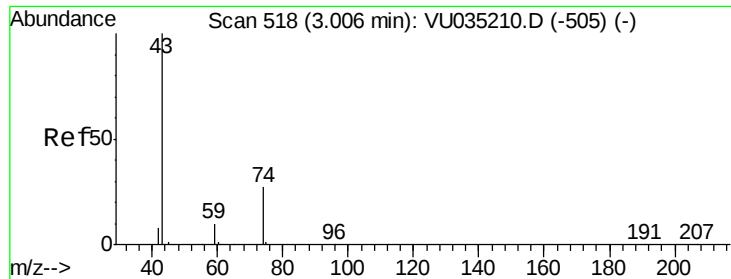
10000

0

Time-->

2.75 2.80 2.85 2.90





#15

Methyl Acetate

Concen: 0.821 ug/L

RT: 3.01 min Scan# 519

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

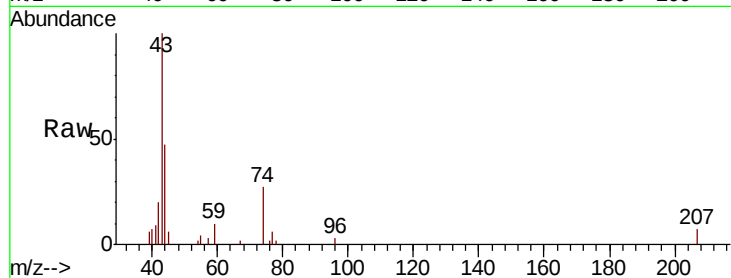
VSTD00101

Tot Ion: 43 Resp: 12133

Ion Ratio Lower Upper

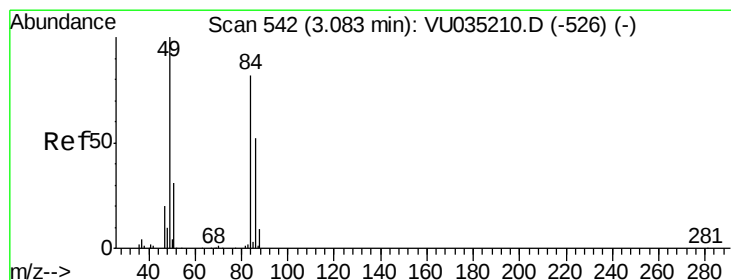
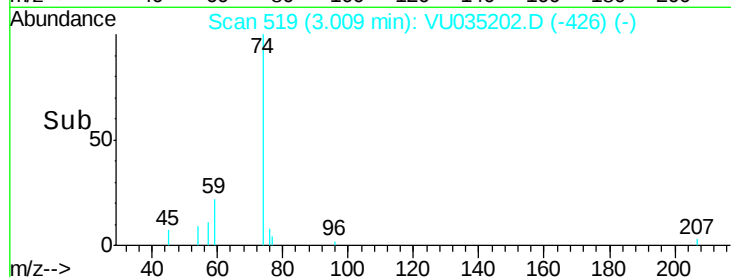
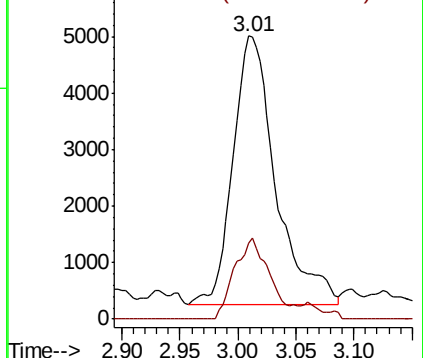
43 100

74 25.6 20.3 30.5



Abundance Ion 43.05 (42.75 to 43.75): VU035210.D (-505) (-)

Ion 74.05 (73.75 to 74.75): VU035210.D (-505) (-)



#16

Methylene chloride

Concen: 0.988 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

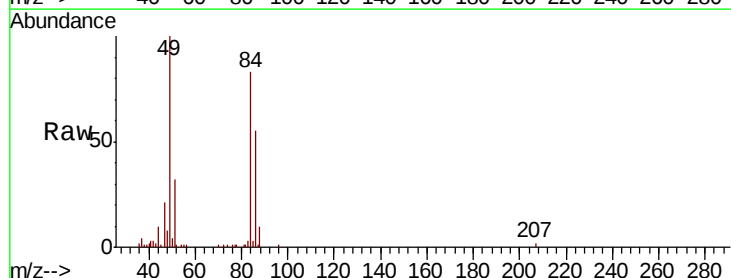
Tgt Ion: 84 Resp: 31551

Ion Ratio Lower Upper

84 100

86 65.4 45.4 84.2

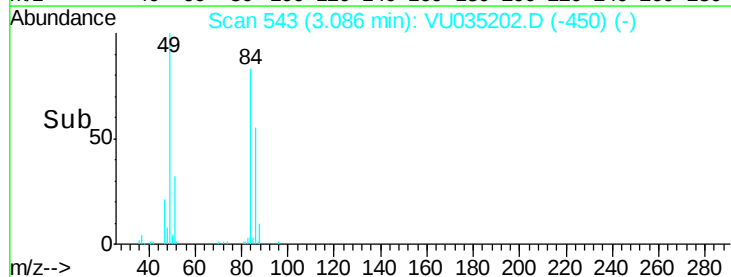
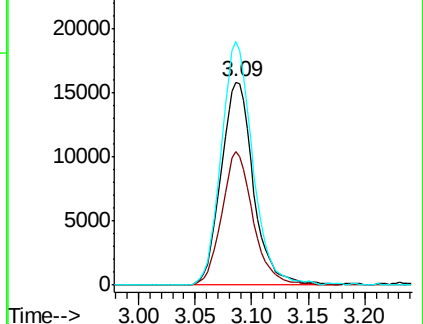
49 119.8 86.8 161.2

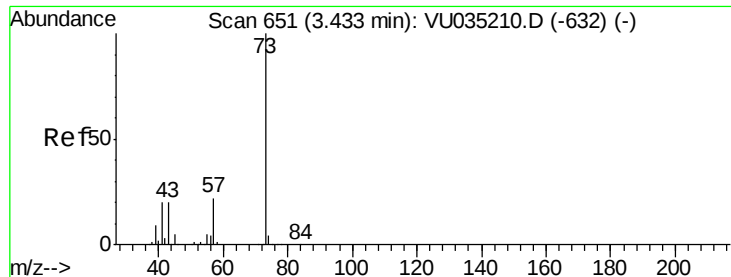


Abundance Ion 84.05 (83.75 to 84.75): VU035210.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU035210.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU035210.D (-526) (-)

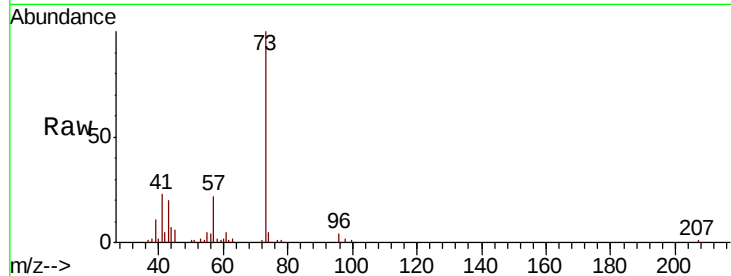




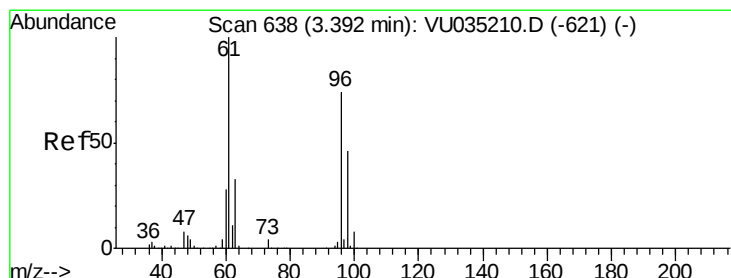
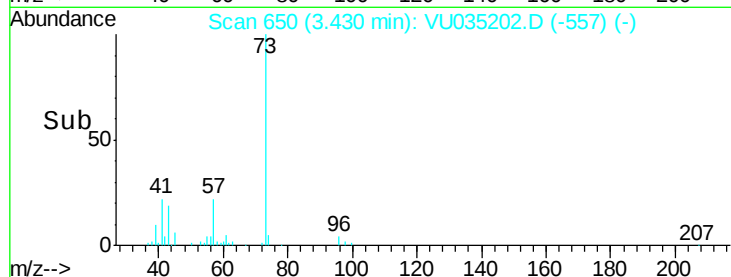
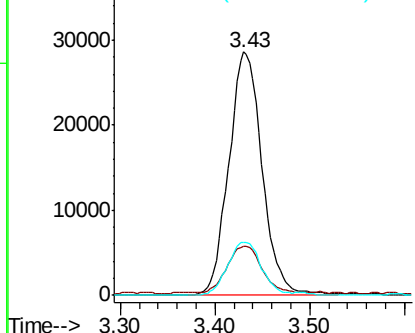
#17
Methvl tert-butvl Ether
Concen: 0.985 ug/L
RT: 3.43 min Scan# 650
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD00101

Tot Ion: 73 Resp: 70171
Ion Ratio Lower Upper
73 100
43 20.3 16.0 24.0
57 22.2 17.4 26.2

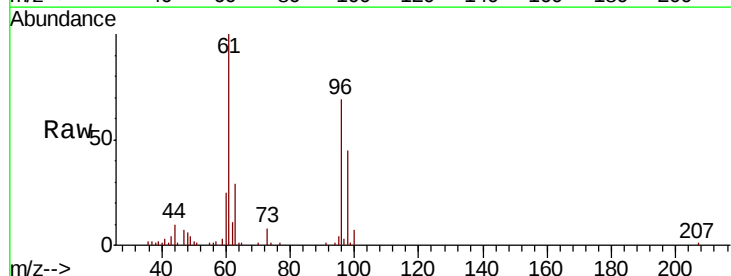


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

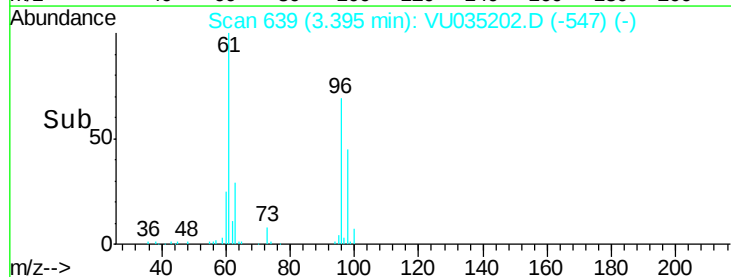
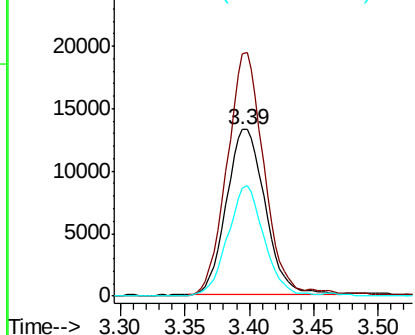


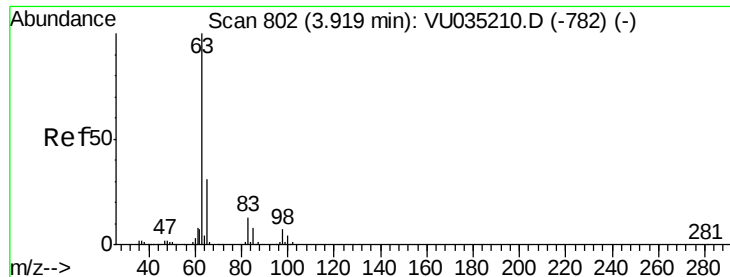
#18
trans-1,2-Dichloroethene
Concen: 0.989 ug/L
RT: 3.39 min Scan# 639
Delta R.T. -0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Tgt Ion: 96 Resp: 27696
Ion Ratio Lower Upper
96 100
61 145.3 93.0 172.6
98 65.0 43.7 81.1



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

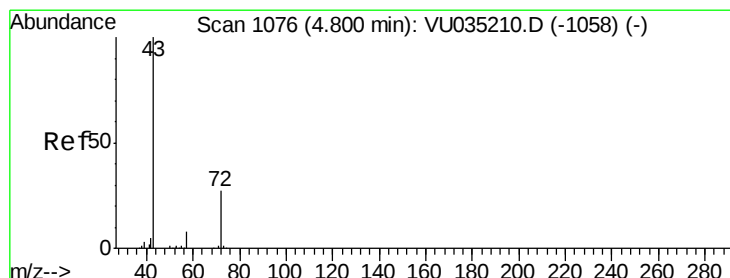
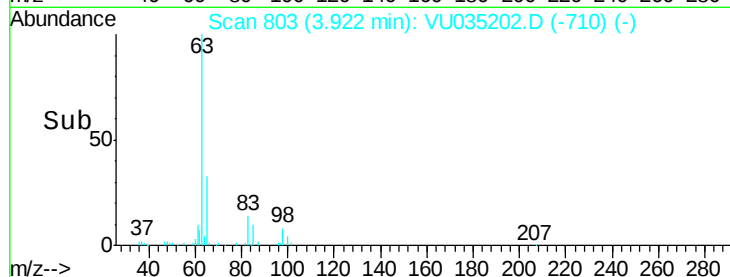
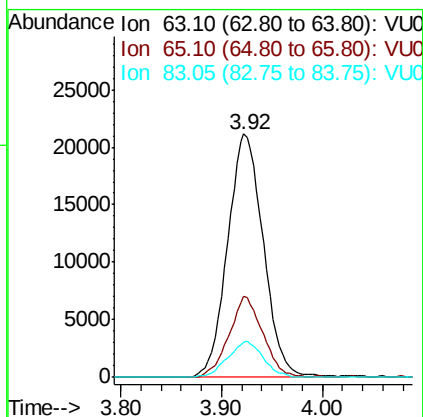
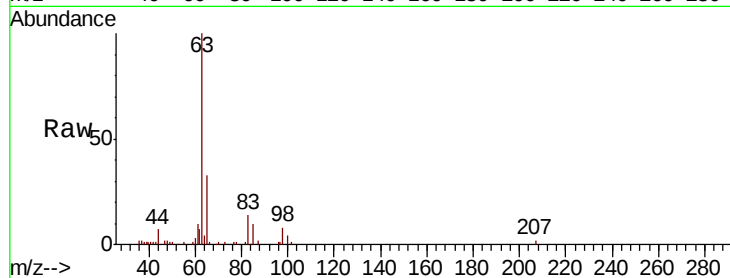




#19
 1,1-Dichloroethane
 Concen: 0.957 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

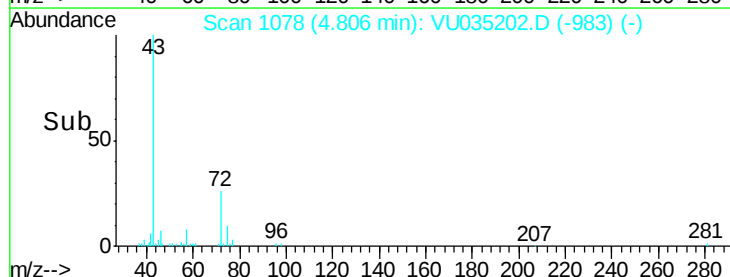
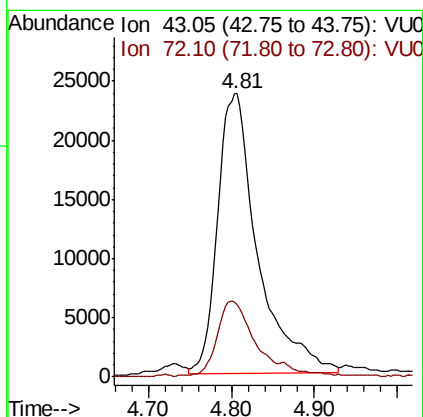
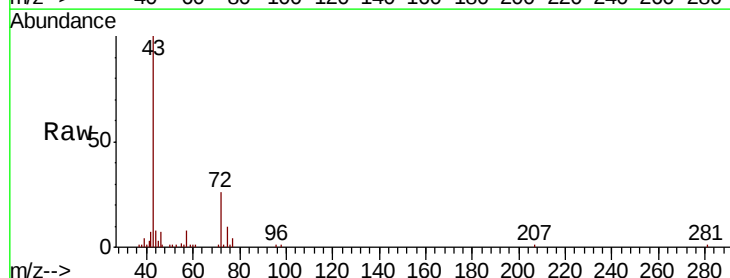
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00101

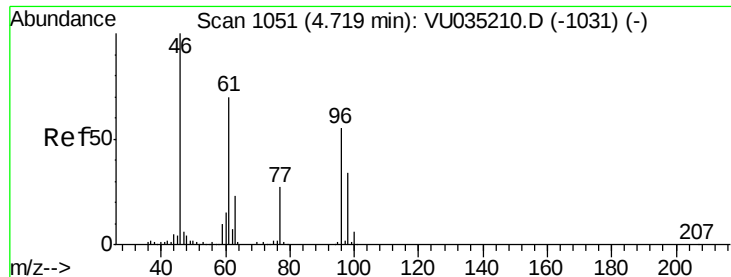
Tot Ion: 63 Resp: 52117
 Ion Ratio Lower Upper
 63 100
 65 33.0 22.4 41.6
 83 14.3 9.3 17.3



#21
 2-Butanone
 Concen: 9.724 ug/L
 RT: 4.81 min Scan# 1078
 Delta R.T. 0.01 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Tgt Ion: 43 Resp: 79290
 Ion Ratio Lower Upper
 43 100
 72 23.6 13.6 40.8





#22

cis-1,2-Dichloroethene

Concen: 1.007 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

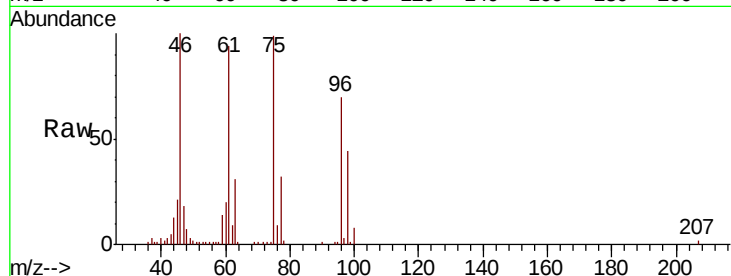
Tot Ion: 96 Resp: 31453

Ion Ratio Lower Upper

96 100

61 134.9 89.7 166.5

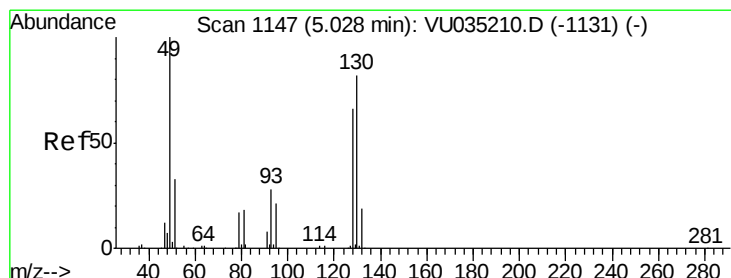
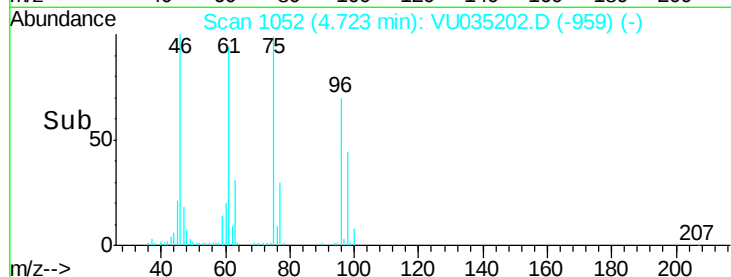
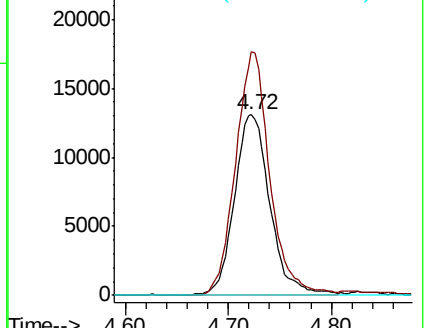
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035202.D (-959) (-)

Ion 61.05 (60.75 to 61.75): VU035202.D (-959) (-)

Ion 68.15 (67.85 to 68.85): VU035202.D (-959) (-)



#23

Bromochloromethane

Concen: 1.015 ug/L

RT: 5.03 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Tgt Ion: 128 Resp: 13229

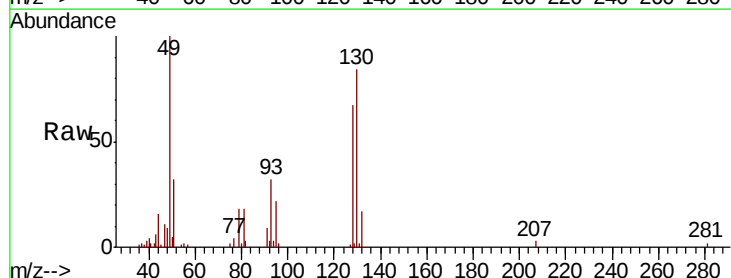
Ion Ratio Lower Upper

128 100

49 150.2 109.3 203.1

130 126.6 88.7 164.7

51 48.1 39.2 58.8

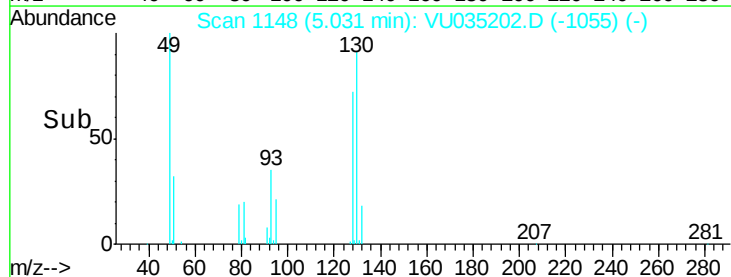
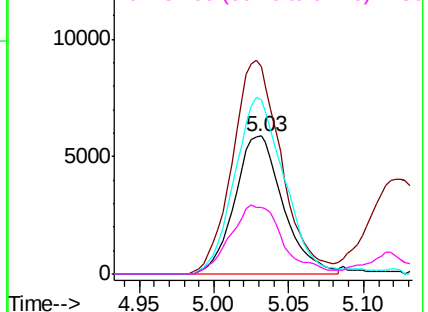


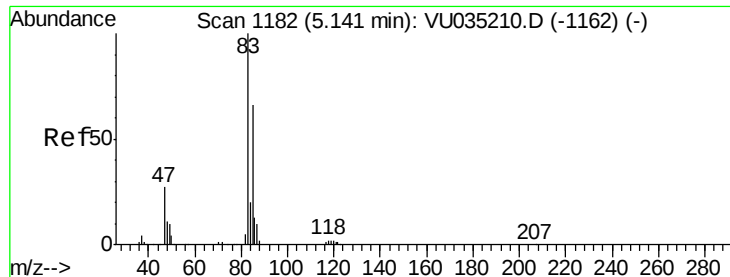
Abundance Ion 127.90 (127.60 to 128.60): VU035202.D (-1055) (-)

Ion 49.10 (48.80 to 49.80): VU035202.D (-1055) (-)

Ion 129.95 (129.65 to 130.65): VU035202.D (-1055) (-)

Ion 51.05 (50.75 to 51.75): VU035202.D (-1055) (-)

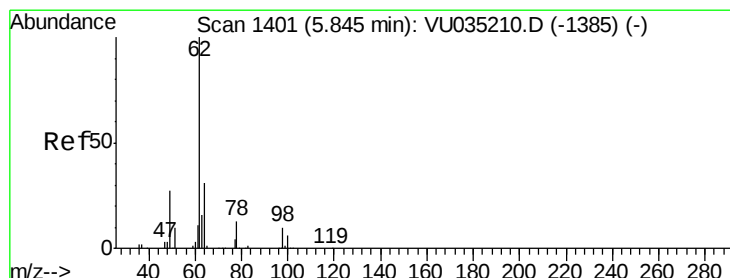
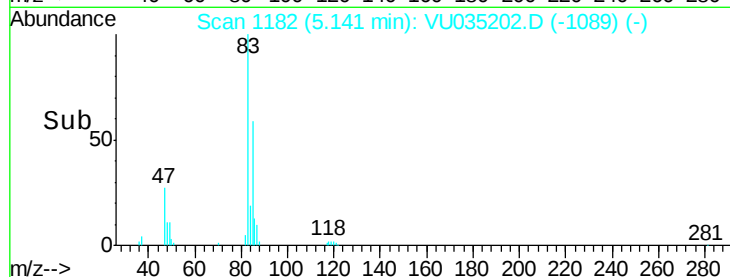
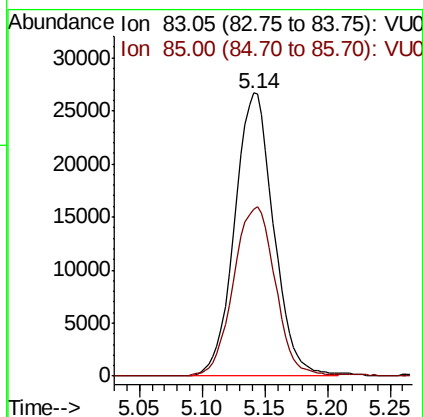
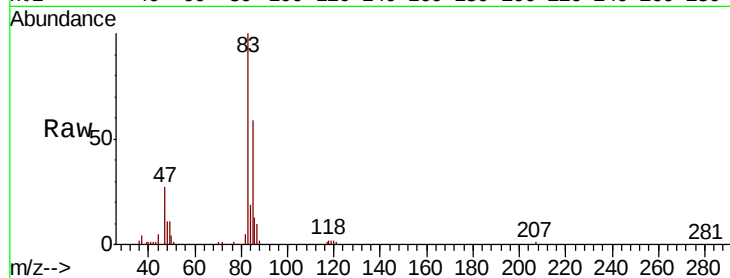




#25
Chloroform
Concen: 0.949 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

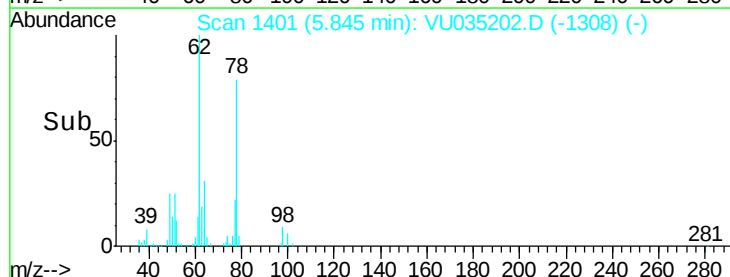
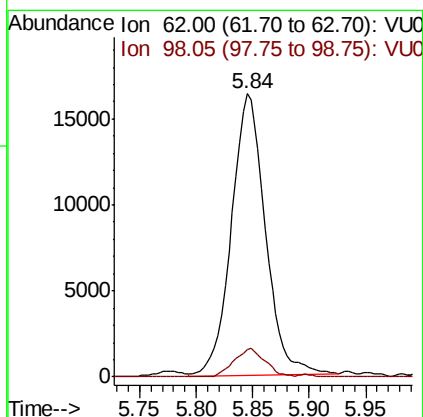
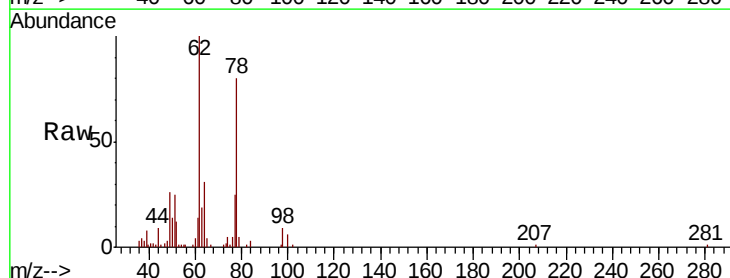
Instrument :
MSVOA_U
ClientSampleId :
VSTD00101

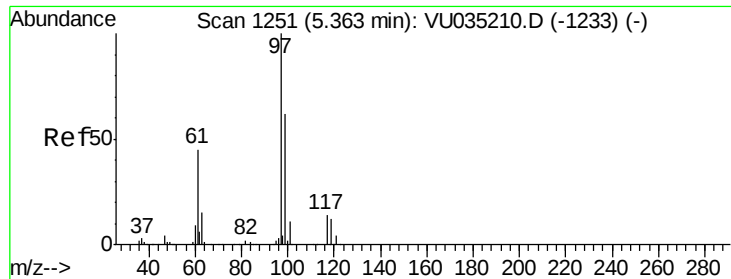
Tot Ion: 83 Resp: 57778
Ion Ratio Lower Upper
83 100
85 59.2 45.1 83.9



#27
1,2-Dichloroethane
Concen: 0.950 ug/L
RT: 5.84 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Tgt Ion: 62 Resp: 34245
Ion Ratio Lower Upper
62 100
98 9.5 7.8 11.6





#29

1,1,1-Trichloroethane

Concen: 1.046 ug/L

RT: 5.37 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

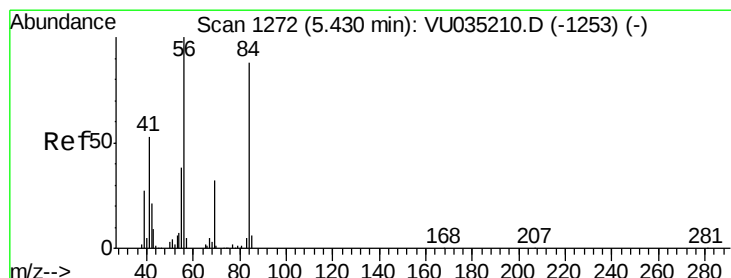
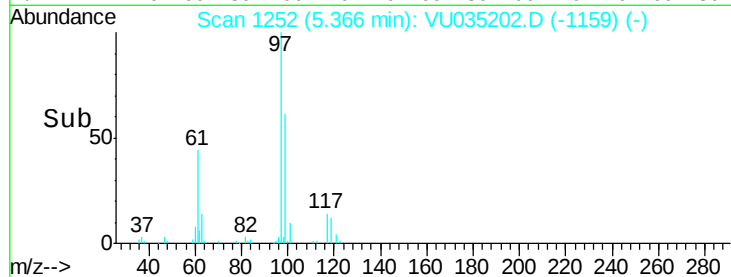
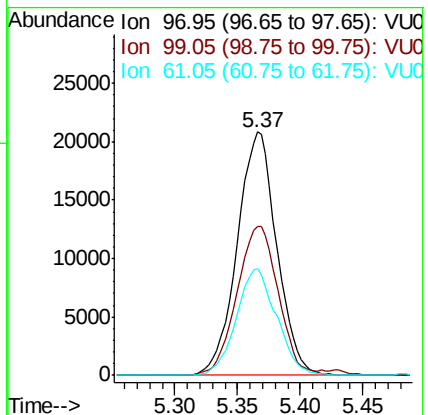
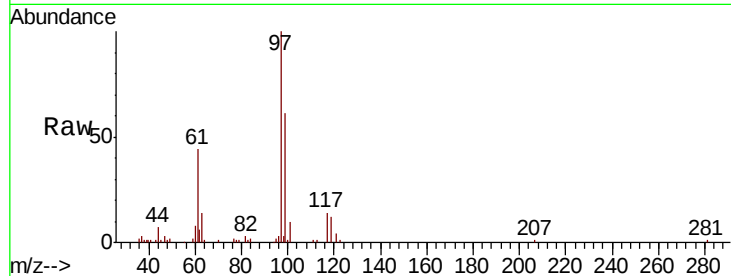
Tot Ion: 97 Resp: 45651

Ion Ratio Lower Upper

97 100

99 64.4 52.6 79.0

61 44.5 37.0 55.4



#30

Cyclohexane

Concen: 1.032 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

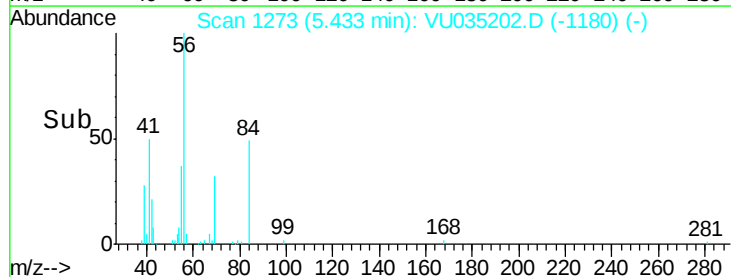
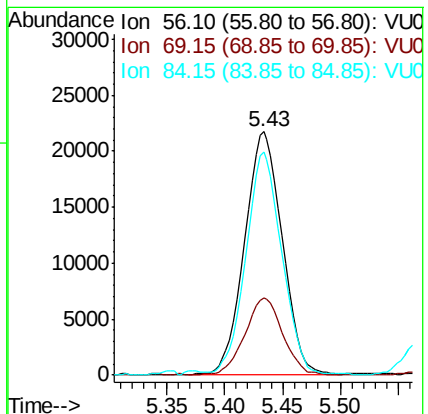
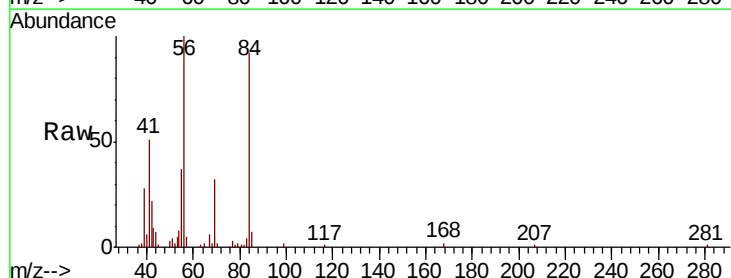
Tgt Ion: 56 Resp: 49252

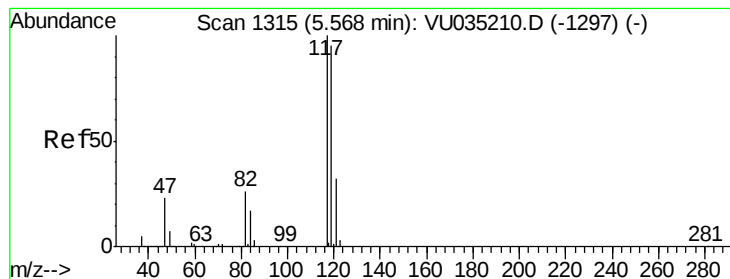
Ion Ratio Lower Upper

56 100

69 31.9 24.6 36.8

84 86.1 71.5 107.3





#31

Carbon tetrachloride

Concen: 1.046 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

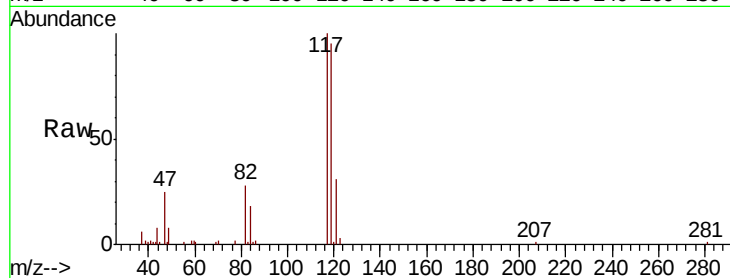
VSTD00101

Tot Ion:117 Resp: 39694

Ion Ratio Lower Upper

117 100

119 95.2 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

20000

15000

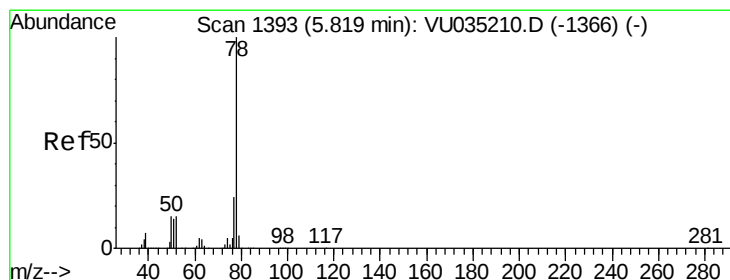
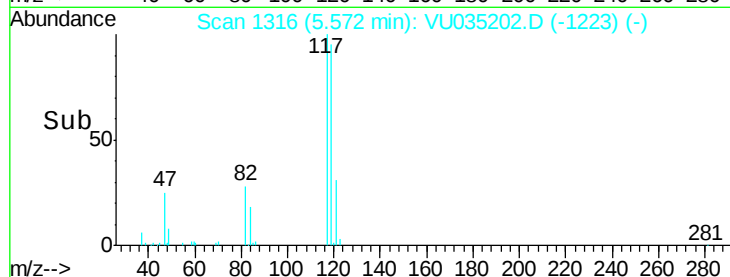
10000

5000

0

Time-->

5.50 5.55 5.60 5.65



#33

Benzene

Concen: 0.960 ug/L

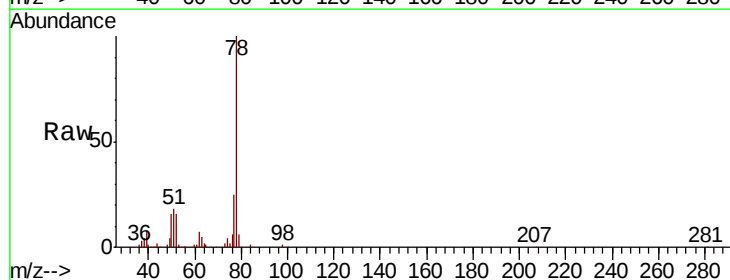
RT: 5.82 min Scan# 1394

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Tgt Ion: 78 Resp: 111009



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.82

60000

50000

40000

30000

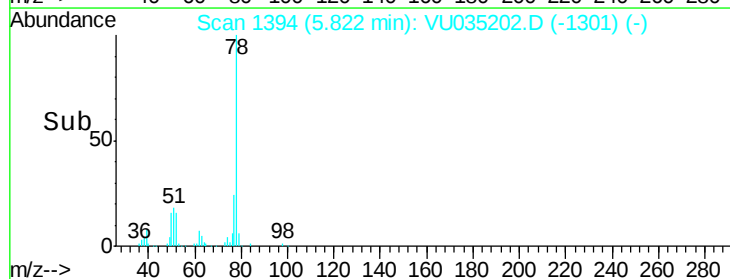
20000

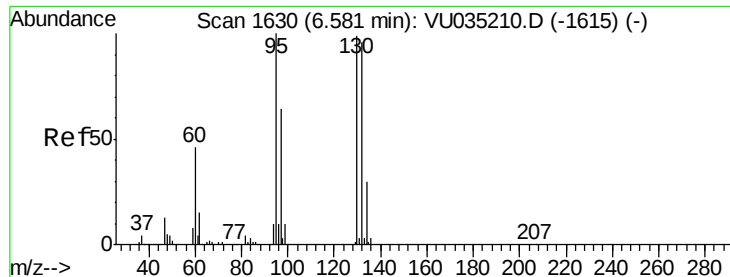
10000

0

Time-->

5.70 5.75 5.80 5.85 5.90

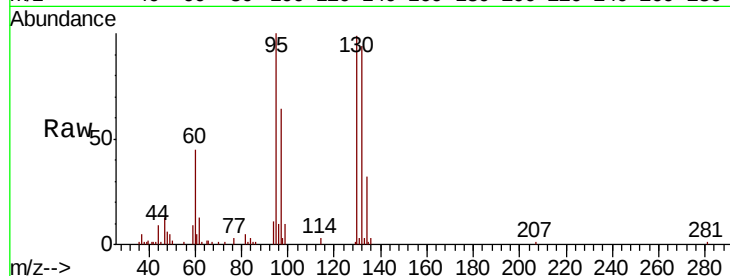




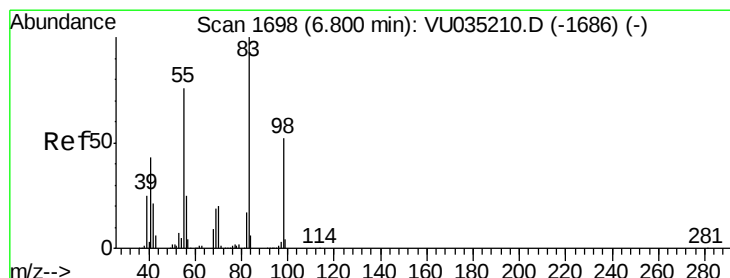
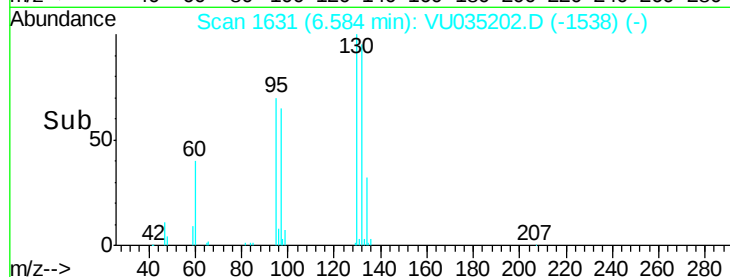
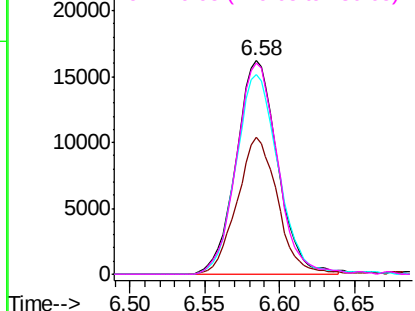
#34
 Trichloroethene
 Concen: 1.044 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00101

Tot Ion: 95 Resp: 31288
 Ion Ratio Lower Upper
 95 100
 97 64.1 46.6 86.6
 132 93.8 68.7 127.7
 130 99.1 73.9 137.3

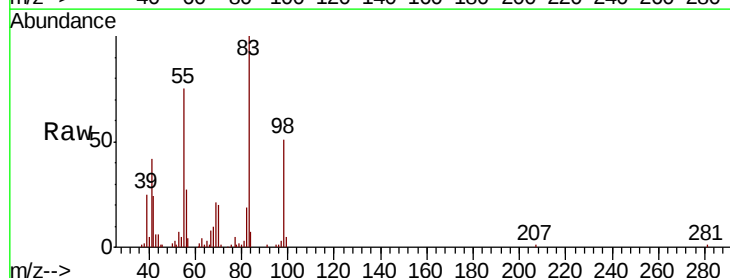


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

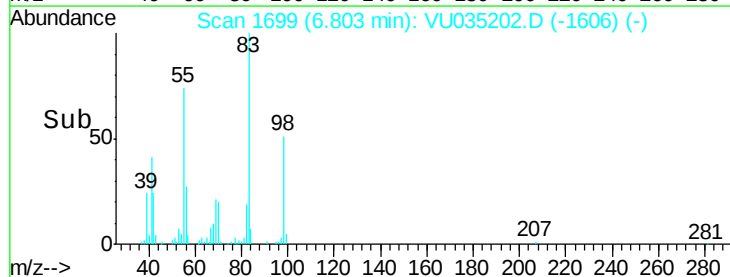
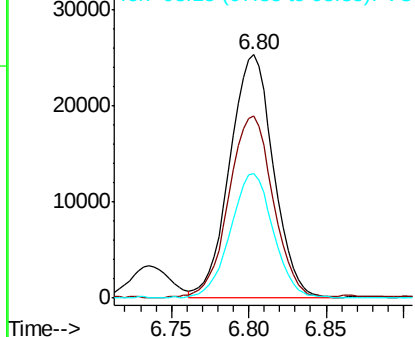


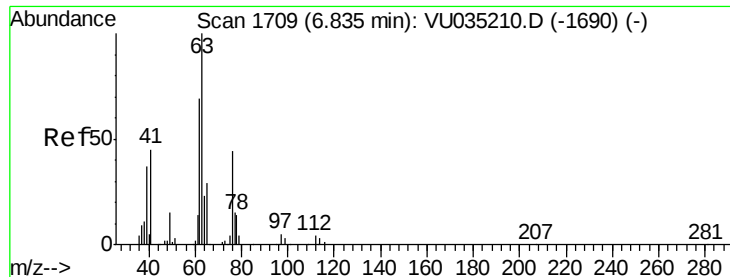
#35
 Methylcyclohexane
 Concen: 1.020 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Tgt Ion: 83 Resp: 49863
 Ion Ratio Lower Upper
 83 100
 55 76.5 60.4 90.6
 98 50.1 39.5 59.3



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

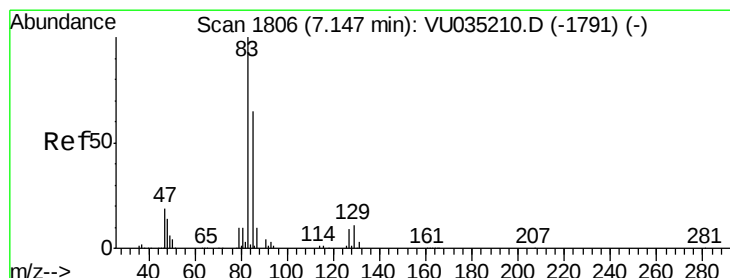
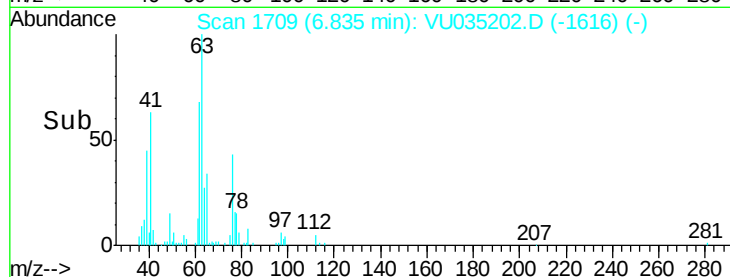
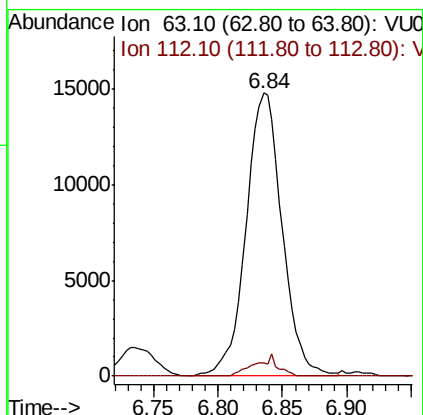
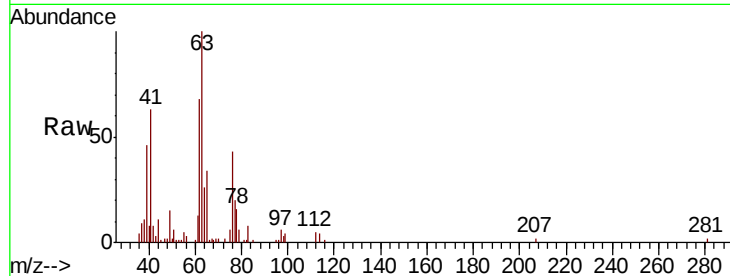




#37
 1,2-Dichloropropane
 Concen: 0.939 ug/L
 RT: 6.84 min Scan# 1709
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

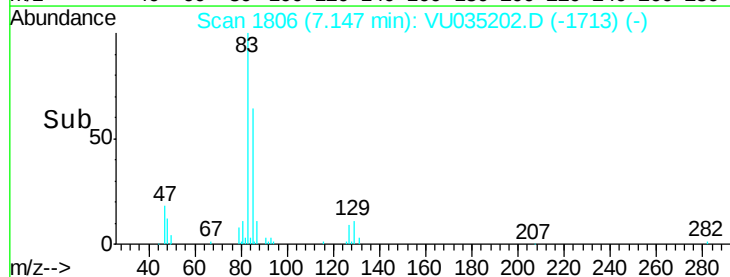
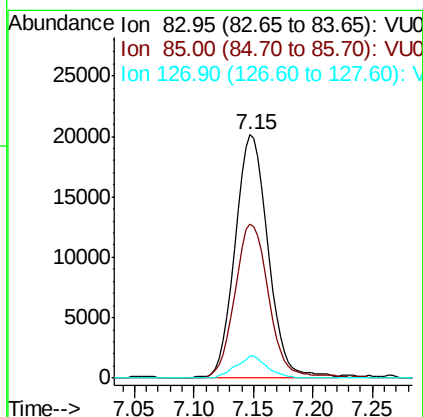
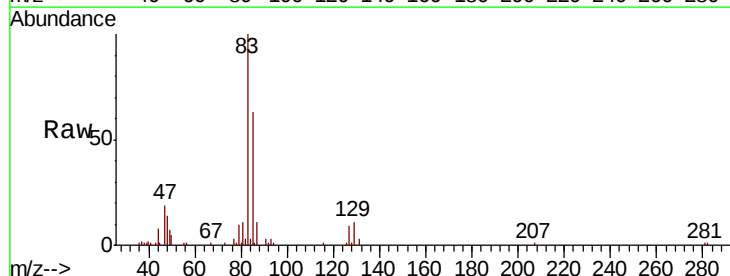
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00101

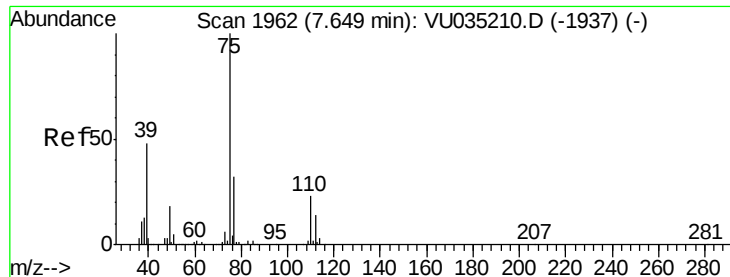
Tot Ion: 63 Resp: 28919
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.7 5.5



#38
 Bromodichloromethane
 Concen: 1.049 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Tgt Ion: 83 Resp: 38925
 Ion Ratio Lower Upper
 83 100
 85 63.3 45.6 84.8
 127 8.9 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 1.086 ug/L

RT: 7.65 min Scan# 1962

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampled :

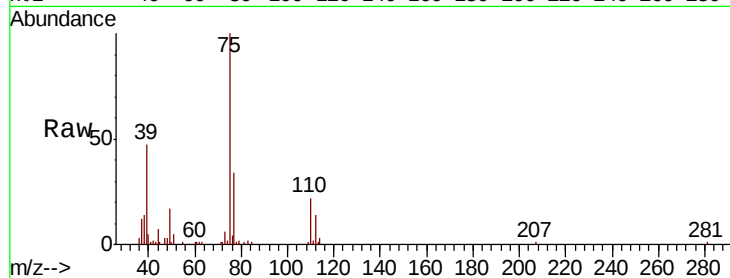
VSTD00101

Tot Ion: 75 Resp: 47287

Ion Ratio Lower Upper

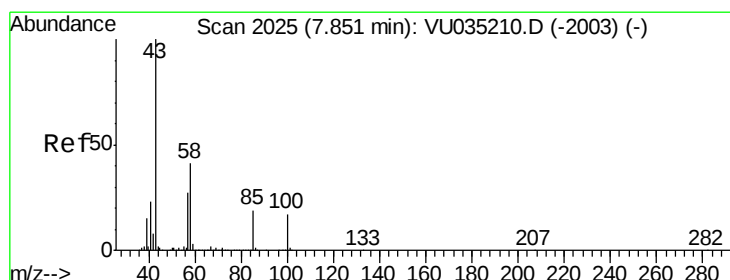
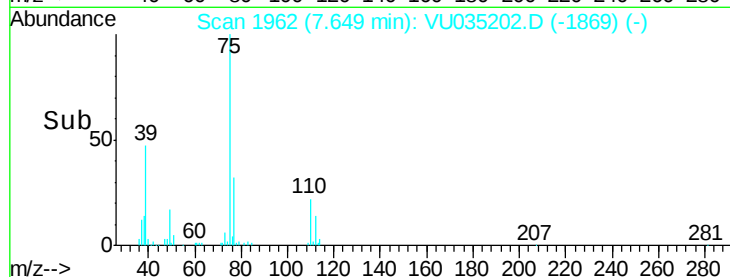
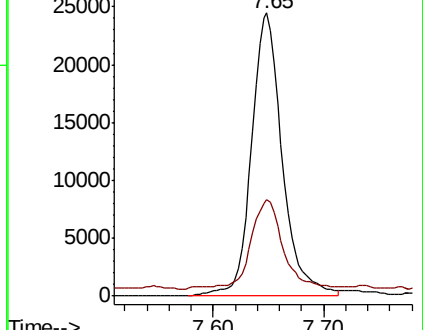
75 100

77 34.2 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VU035202.D (-1869) (-)

Ion 77.05 (76.75 to 77.75): VU035202.D (-1869) (-)



#40

4-Methyl-2-pentanone

Concen: 9.342 ug/L

RT: 7.85 min Scan# 2025

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

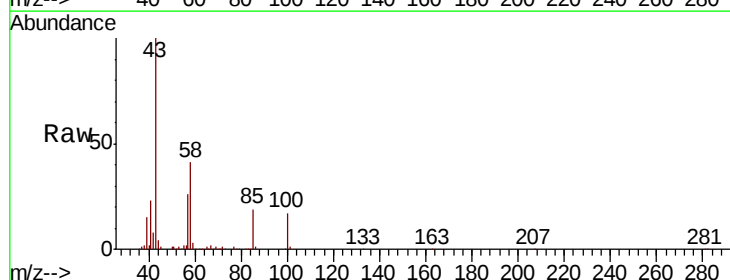
Tgt Ion: 43 Resp: 184128

Ion Ratio Lower Upper

43 100

58 40.8 32.3 48.5

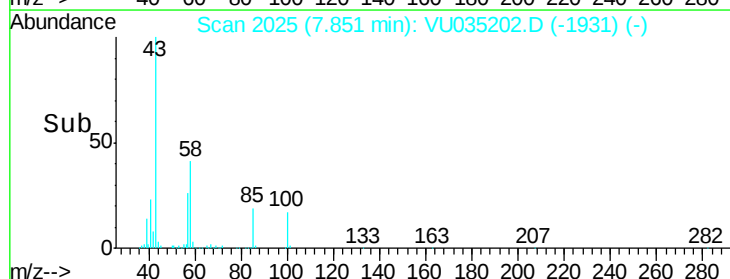
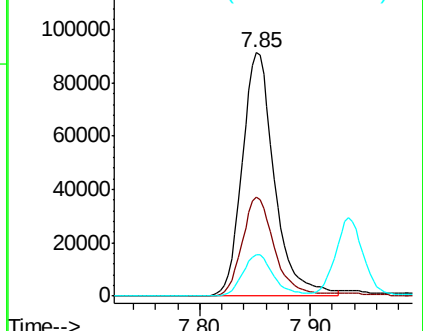
100 16.7 13.4 20.2

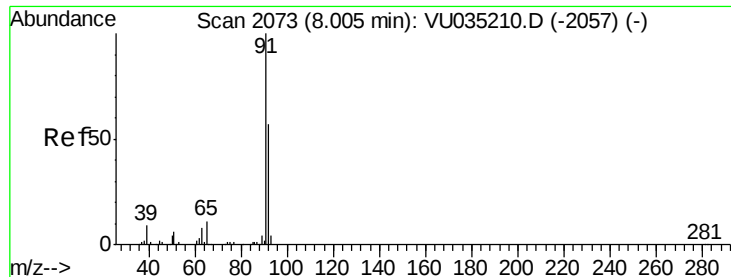


Abundance Ion 43.05 (42.75 to 43.75): VU035202.D (-1931) (-)

Ion 58.05 (57.75 to 58.75): VU035202.D (-1931) (-)

Ion 100.15 (99.85 to 100.85): VU035202.D (-1931) (-)





#42

Toluene

Concen: 1.035 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

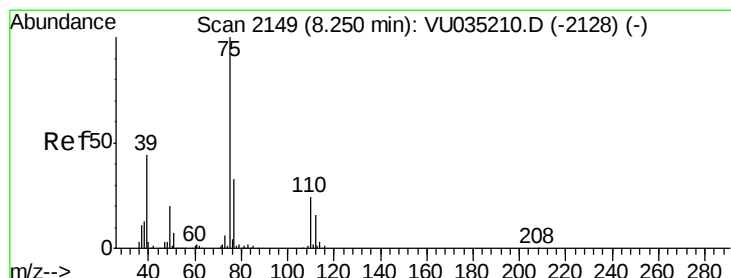
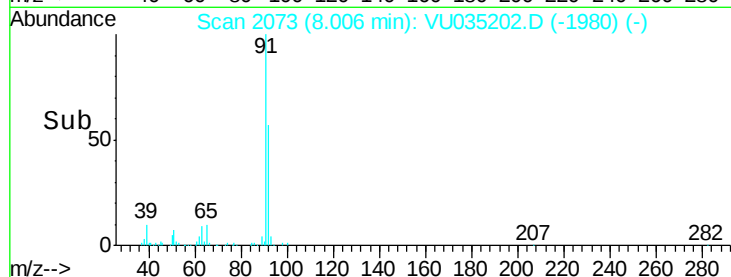
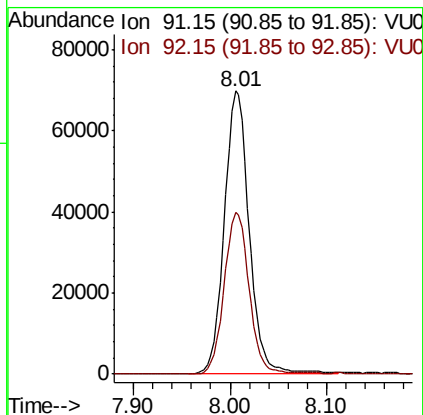
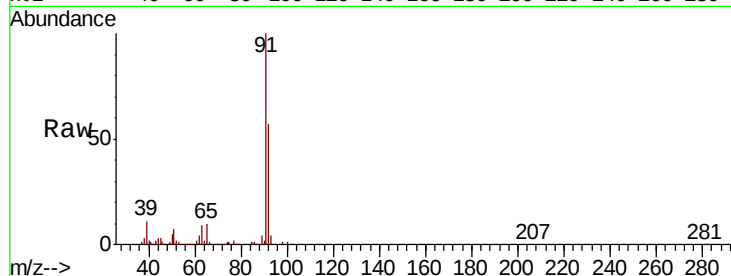
VSTD00101

Tot Ion: 91 Resp: 125489

Ion Ratio Lower Upper

91 100

92 56.9 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 1.110 ug/L

RT: 8.25 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU035202.D

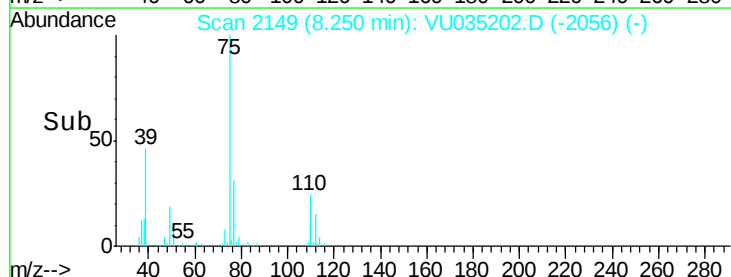
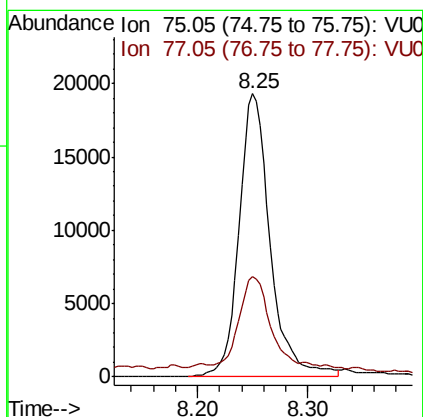
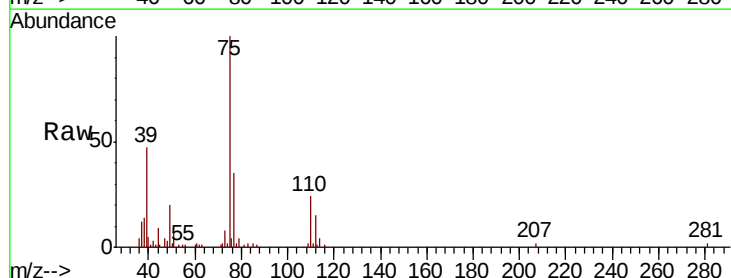
Acq: 17 Oct 2019 10:02

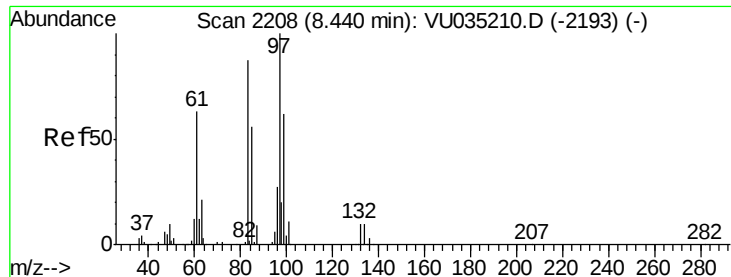
Tgt Ion: 75 Resp: 37750

Ion Ratio Lower Upper

75 100

77 35.3 23.0 42.8

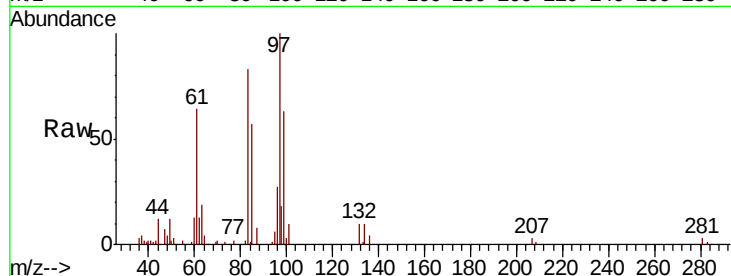




#45
 1,1,2-Trichloroethane
 Concen: 1.025 ug/L
 RT: 8.44 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00101

Tot Ion:	97	Resp:	21437
Ion	Ratio	Lower	Upper
97	100		
99	62.8	42.9	79.7
83	82.5	60.4	112.2
85	57.0	38.4	71.2

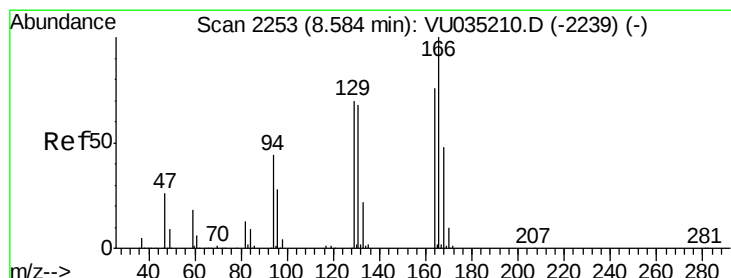
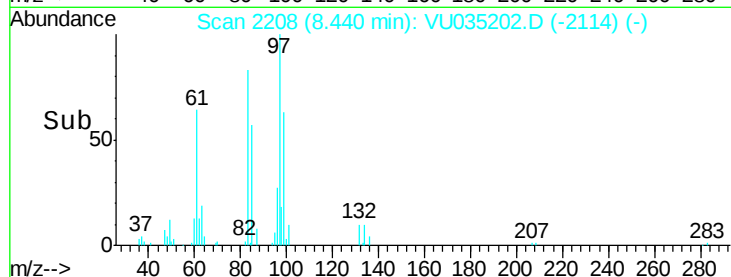
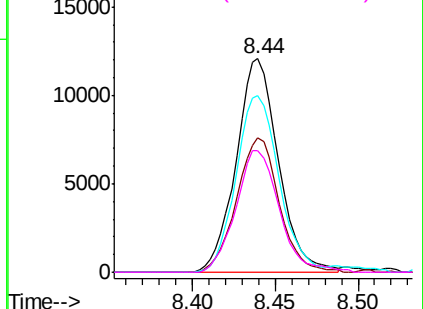


Abundance Ion 96.95 (96.65 to 97.65): VU035202.D (-2114) (-)

Ion 99.05 (98.75 to 99.75): VU035202.D (-2114) (-)

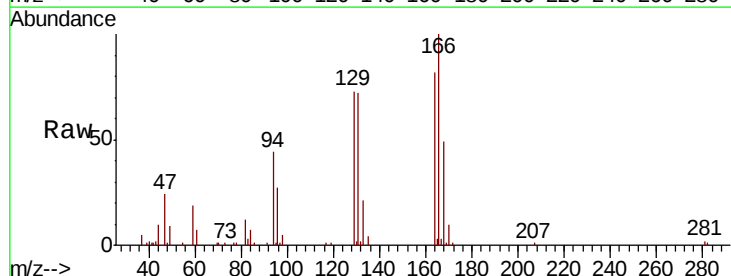
Ion 82.95 (82.65 to 83.65): VU035202.D (-2114) (-)

Ion 85.00 (84.70 to 85.70): VU035202.D (-2114) (-)



#47
 Tetrachloroethene
 Concen: 1.012 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Tgt Ion:	164	Resp:	24714
Ion	Ratio	Lower	Upper
164	100		
129	88.7	65.2	121.0
131	87.6	62.9	116.9
166	122.1	91.5	169.9

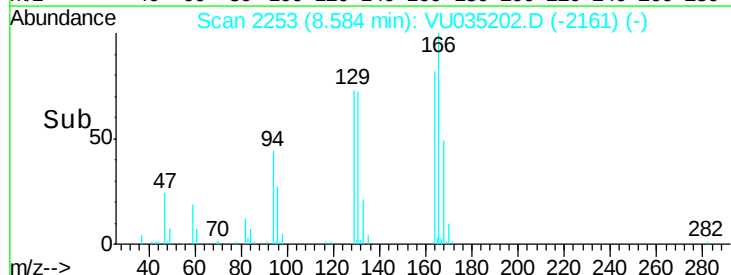
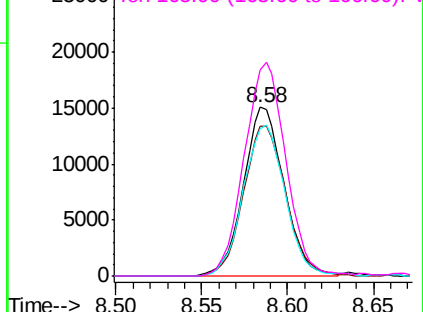


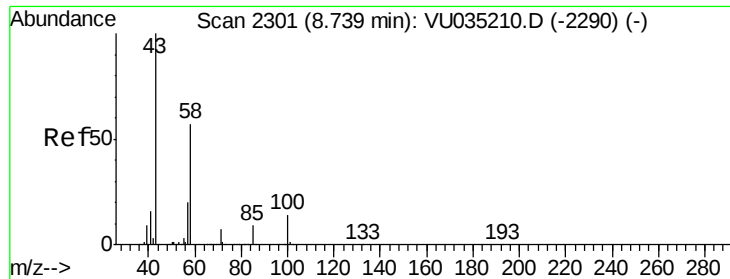
Abundance Ion 163.90 (163.60 to 164.60): VU035202.D (-2161) (-)

Ion 128.95 (128.65 to 129.65): VU035202.D (-2161) (-)

Ion 130.95 (130.65 to 131.65): VU035202.D (-2161) (-)

Ion 165.90 (165.60 to 166.60): VU035202.D (-2161) (-)

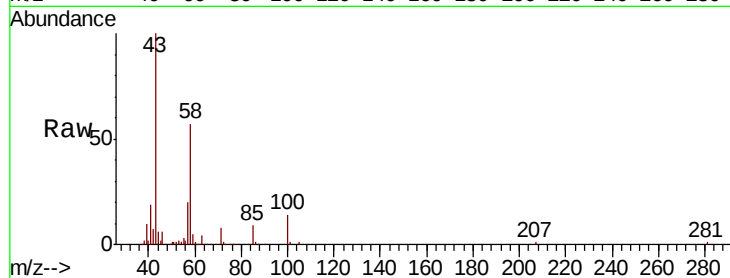




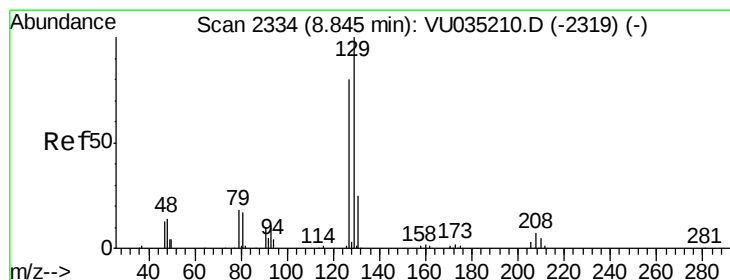
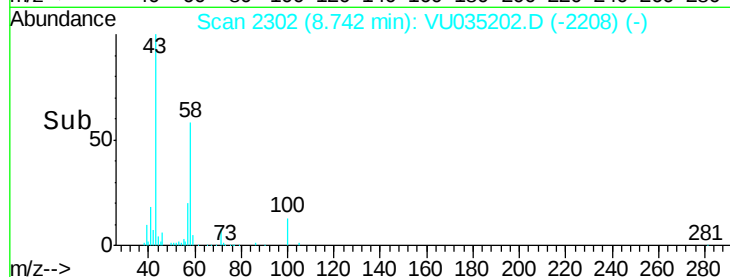
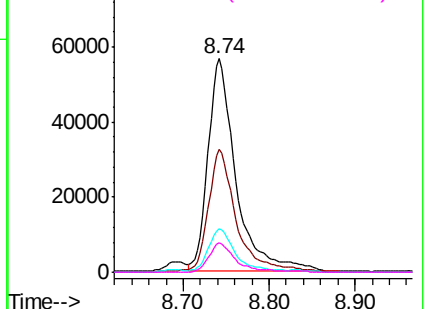
#48
2-Hexanone
Concen: 9.531 ug/L
RT: 8.74 min Scan# 2302
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD00101

Tot Ion: 43 Resp: 129306
Ion Ratio Lower Upper
43 100
58 57.8 45.1 67.7
57 18.6 16.0 24.0
100 13.1 10.4 15.6

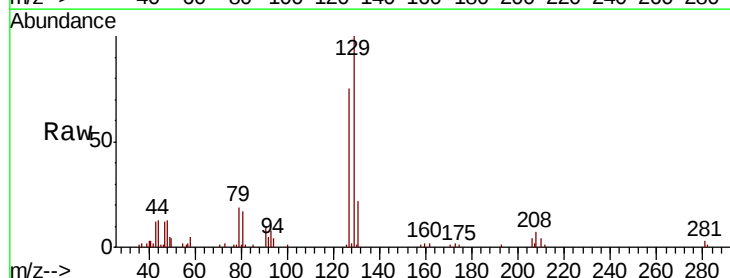


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

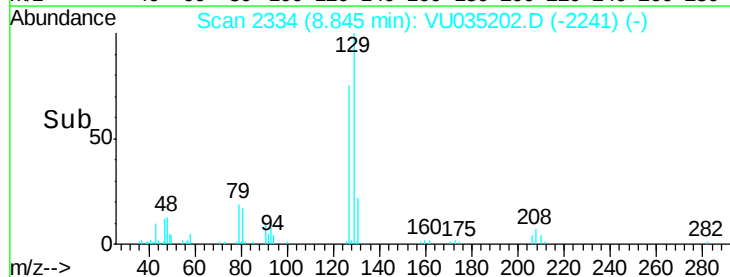
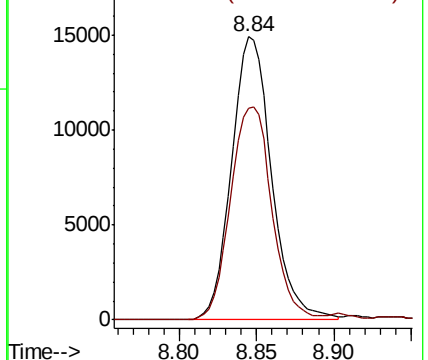


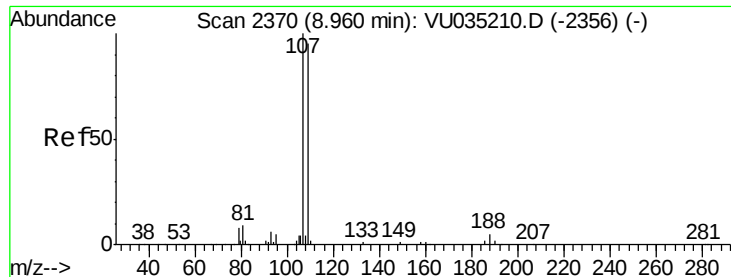
#49
Dibromochloromethane
Concen: 1.091 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Tgt Ion: 129 Resp: 26794
Ion Ratio Lower Upper
129 100
127 74.8 53.8 99.8



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





#50

1,2-Dibromoethane

Concen: 1.078 ug/L

RT: 8.96 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampled :

VSTD00101

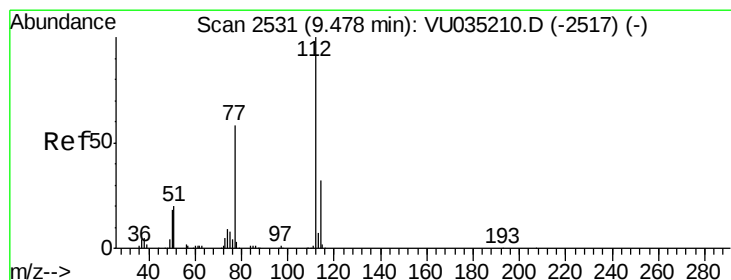
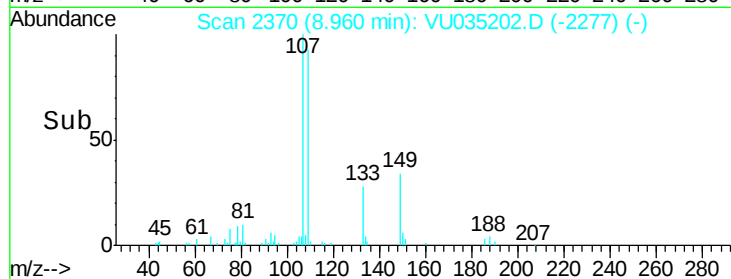
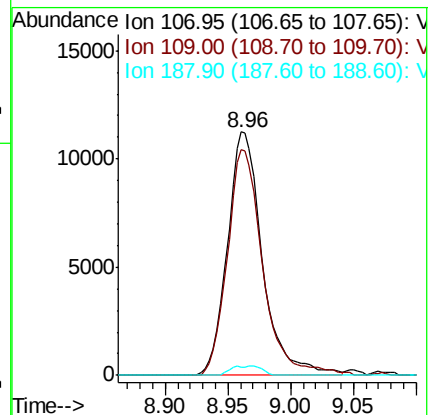
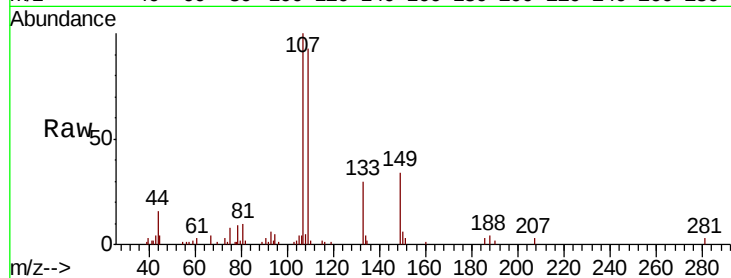
Tot Ion:107 Resp: 21720

Ion Ratio Lower Upper

107 100

109 92.7 66.1 122.8

188 3.5 3.2 4.8



#51

Chlorobenzene

Concen: 1.014 ug/L

RT: 9.48 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

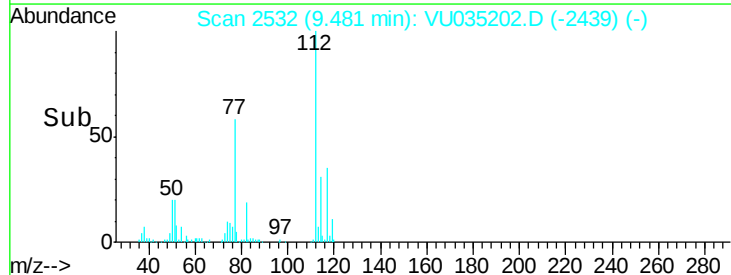
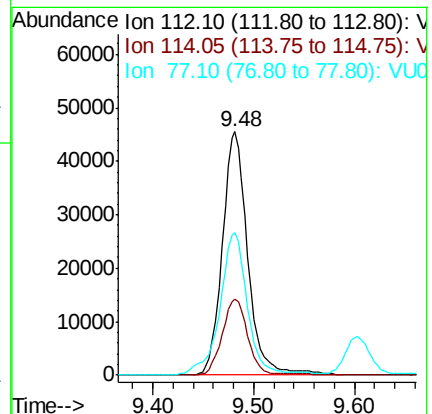
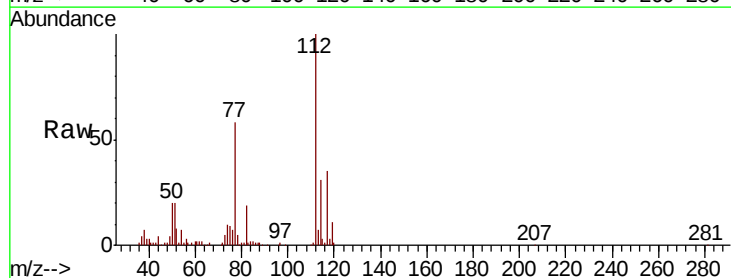
Tgt Ion:112 Resp: 80039

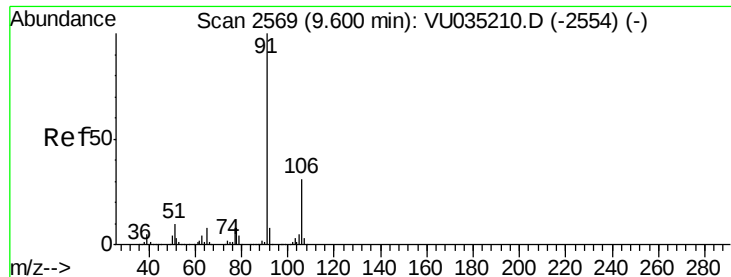
Ion Ratio Lower Upper

112 100

114 31.0 23.0 42.8

77 58.5 47.5 71.3





#52

Ethylbenzene

Concen: 1.032 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

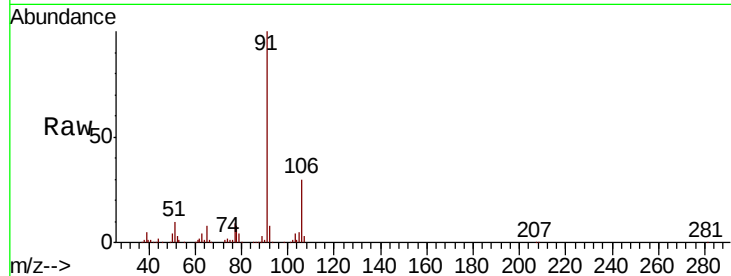
VSTD00101

Tot Ion: 91 Resp: 139431

Ion Ratio Lower Upper

91 100

106 30.1 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU035210.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU035210.D (-2554) (-)

9.60

80000

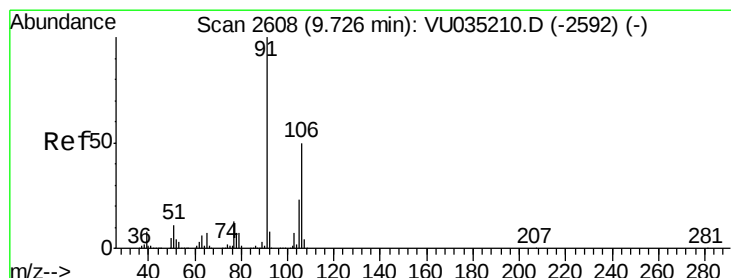
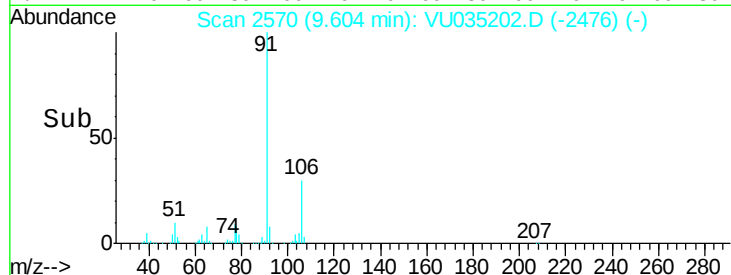
60000

40000

20000

0

Time--> 9.50 9.55 9.60 9.65 9.70



#53

m,p-Xylene

Concen: 1.057 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035202.D

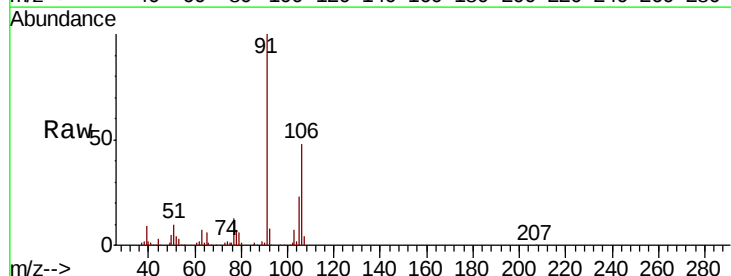
Acq: 17 Oct 2019 10:02

Tgt Ion: 106 Resp: 52910

Ion Ratio Lower Upper

106 100

91 206.4 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035210.D (-2592) (-)

Ion 91.15 (90.85 to 91.85): VU035210.D (-2592) (-)

9.73

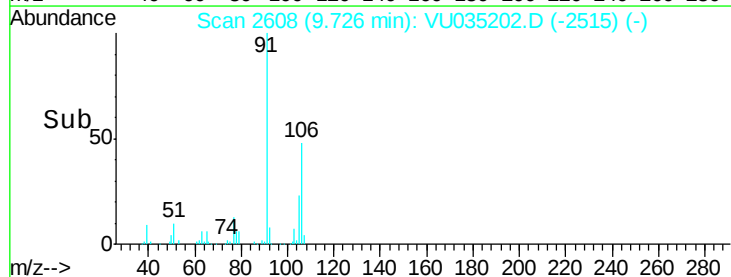
60000

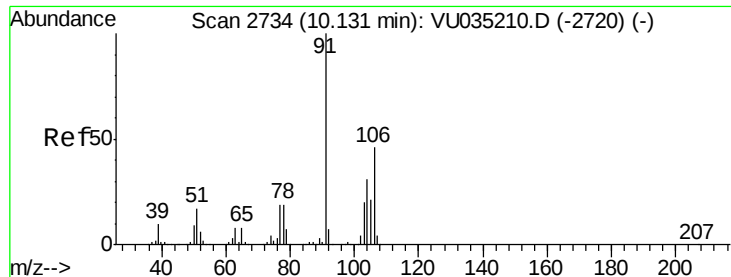
40000

20000

0

Time--> 9.65 9.70 9.75 9.80

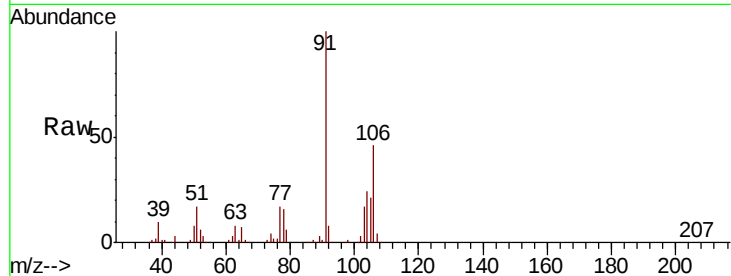




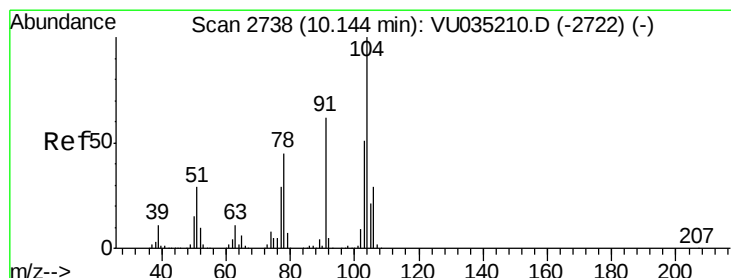
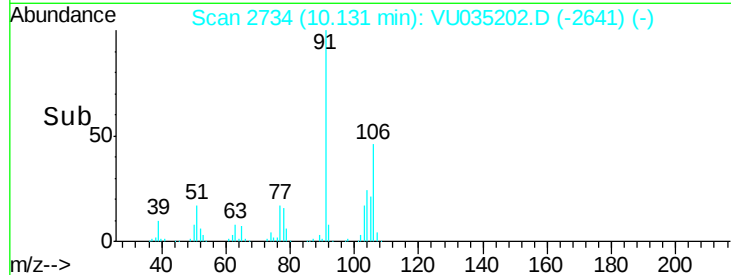
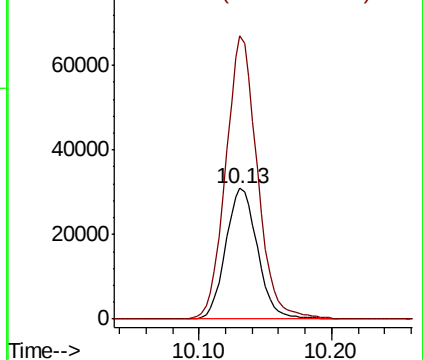
#54
o-Xylene
Concen: 1.054 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD00101

Tot Ion:106 Resp: 51611
Ion Ratio Lower Upper
106 100
91 216.9 153.2 284.6

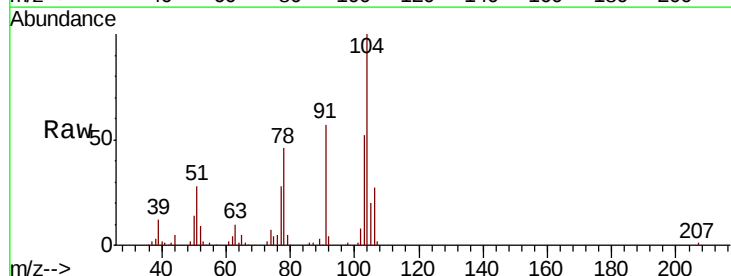


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

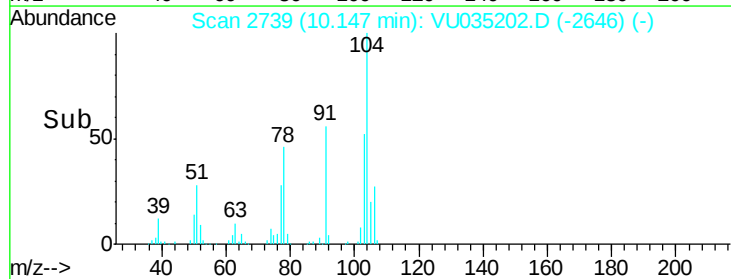
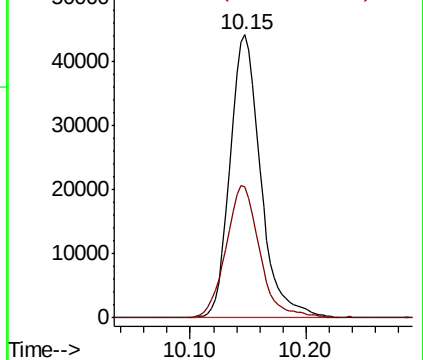


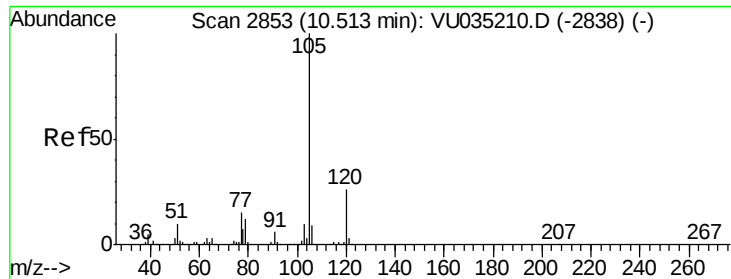
#55
Styrene
Concen: 1.014 ug/L
RT: 10.15 min Scan# 2739
Delta R.T. 0.00 min
Lab File: VU035202.D
Acq: 17 Oct 2019 10:02

Tgt Ion:104 Resp: 80522
Ion Ratio Lower Upper
104 100
78 46.4 31.3 58.1



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





#56

Isopropylbenzene

Concen: 1.044 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

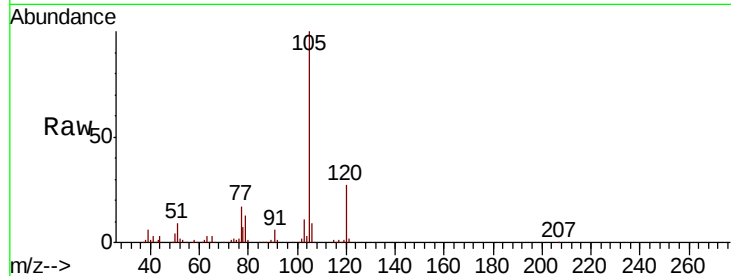
Tot Ion:105 Resp: 136779

Ion Ratio Lower Upper

105 100

120 26.0 21.0 31.6

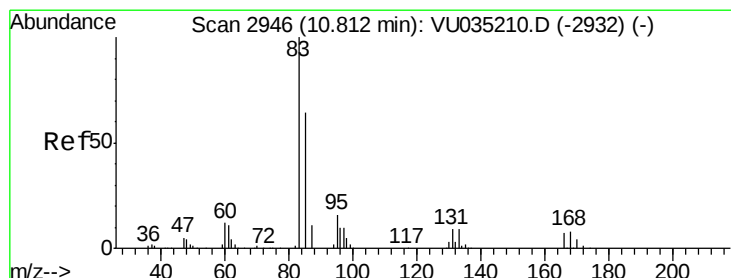
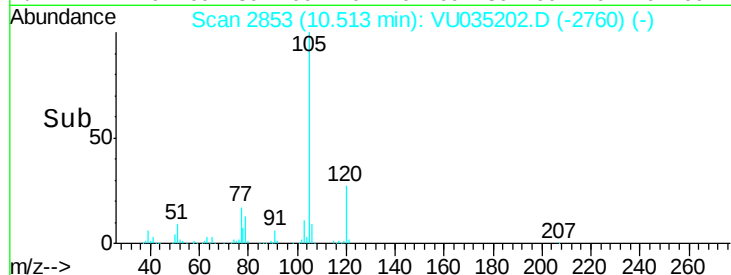
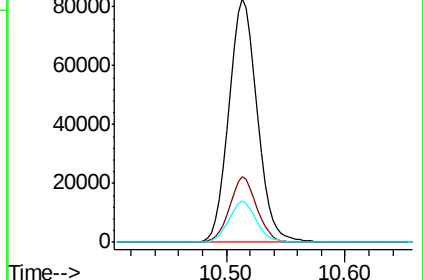
77 16.5 12.6 19.0



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: 0.954 ug/L

RT: 10.82 min Scan# 2947

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

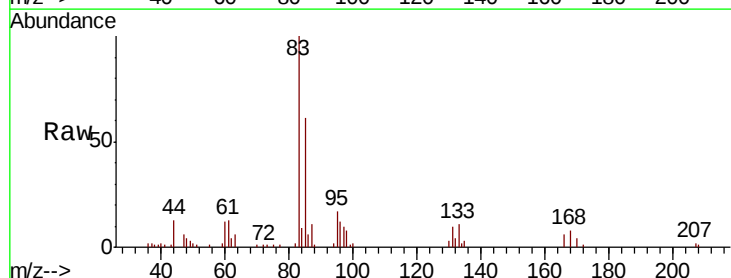
Tgt Ion: 83 Resp: 26858

Ion Ratio Lower Upper

83 100

85 61.0 46.8 86.8

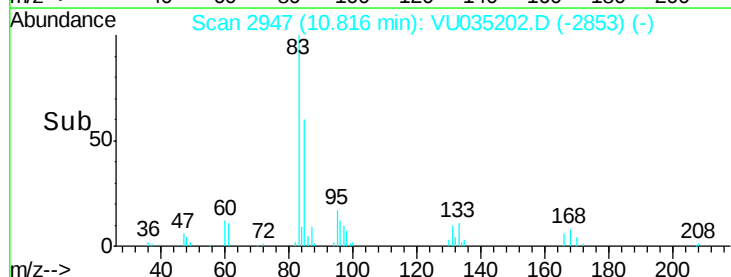
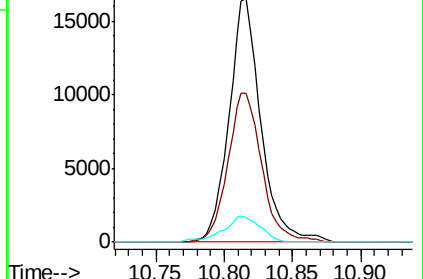
131 10.3 7.5 11.3

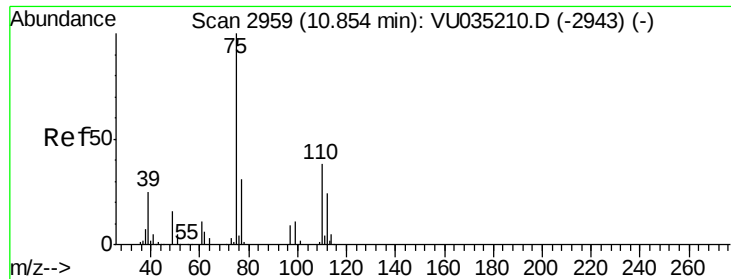


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

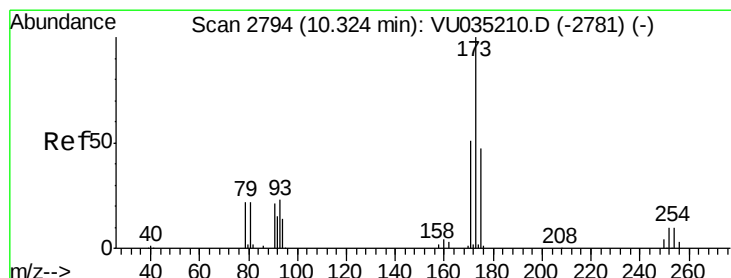
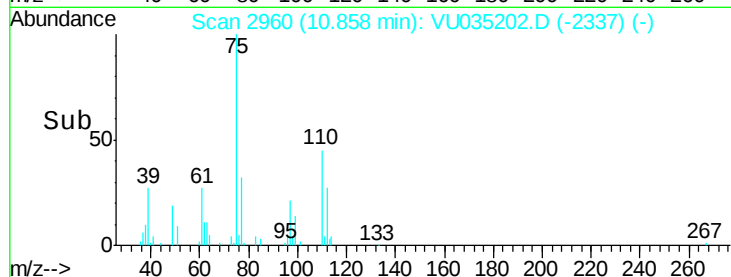
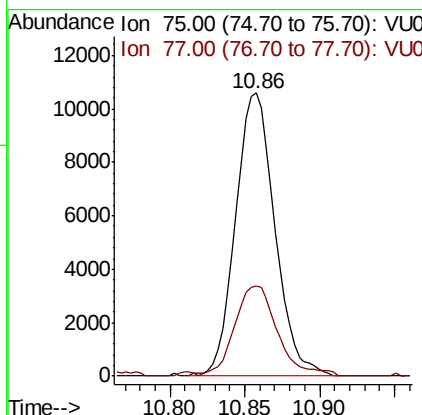
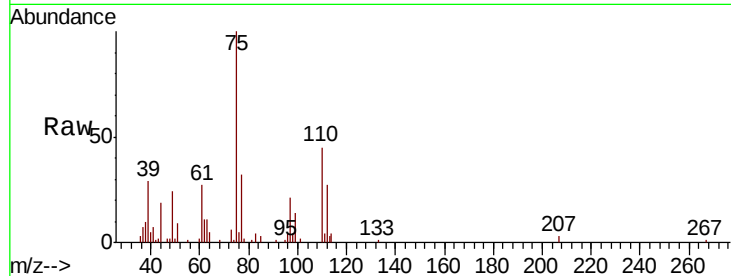




#59
 1,2,3-Trichloropropane
 Concen: 0.955 ug/L
 RT: 10.86 min Scan# 2960
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

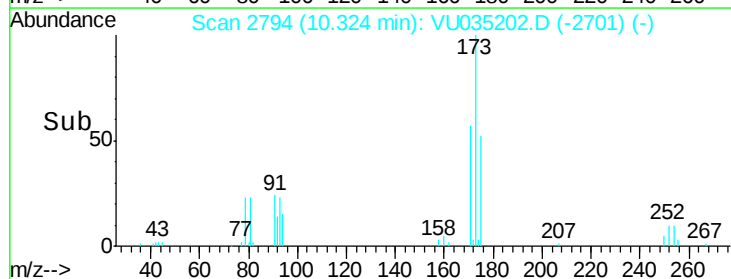
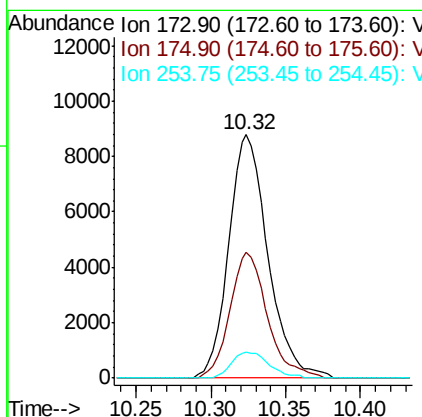
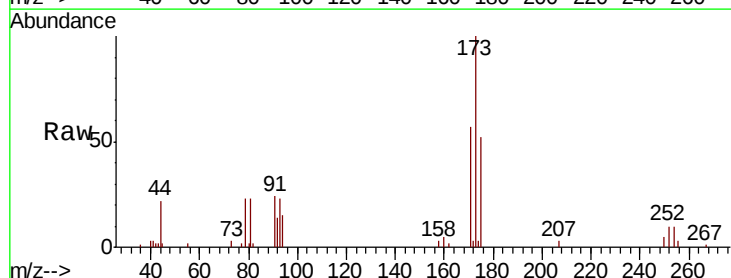
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00101

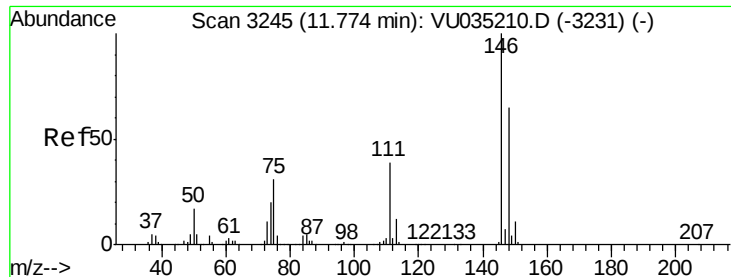
Tot Ion: 75 Resp: 19408
 Ion Ratio Lower Upper
 75 100
 77 34.9 26.2 39.2



#61
 Bromoform
 Concen: 1.314 ug/L
 RT: 10.32 min Scan# 2794
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Tgt Ion: 173 Resp: 16007
 Ion Ratio Lower Upper
 173 100
 175 49.3 38.8 58.2
 254 10.3 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 1.064 ug/L

RT: 11.78 min Scan# 3246

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

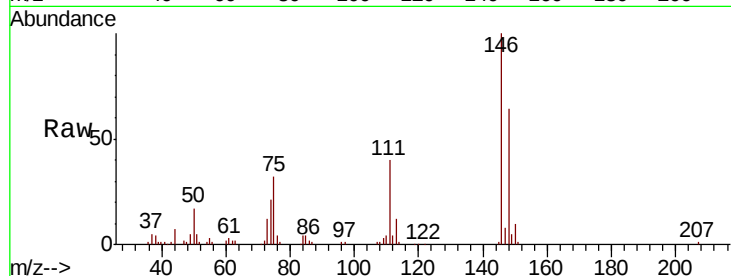
Tot Ion:146 Resp: 55138

Ion Ratio Lower Upper

146 100

111 40.0 27.8 51.6

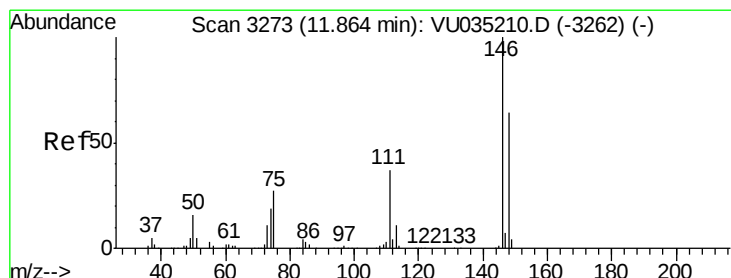
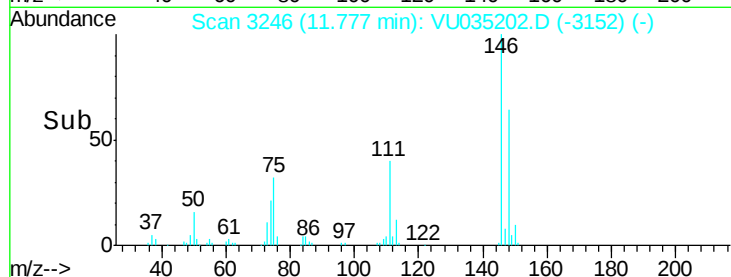
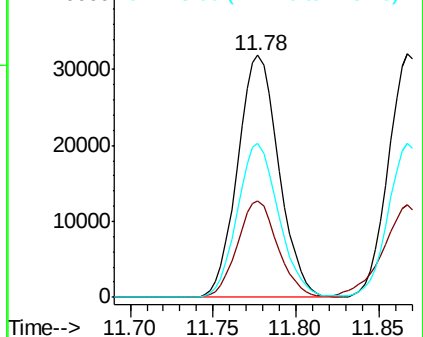
148 63.8 45.6 84.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 1.052 ug/L

RT: 11.87 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

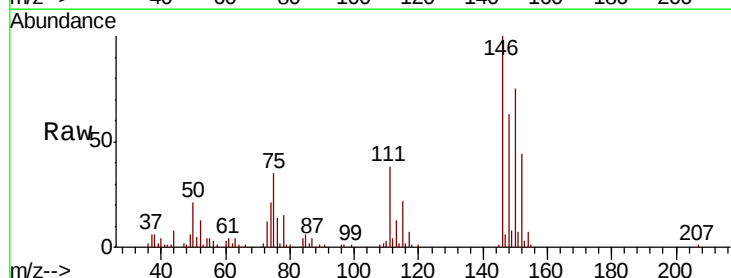
Tgt Ion:146 Resp: 54877

Ion Ratio Lower Upper

146 100

111 38.0 26.4 49.0

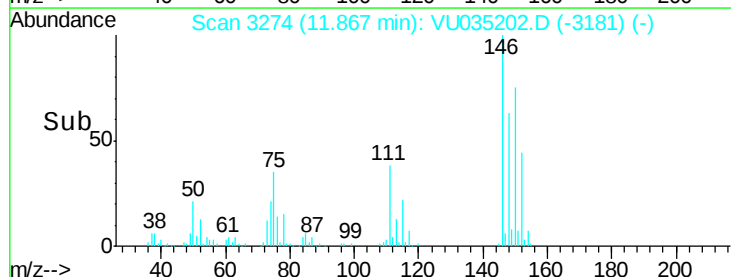
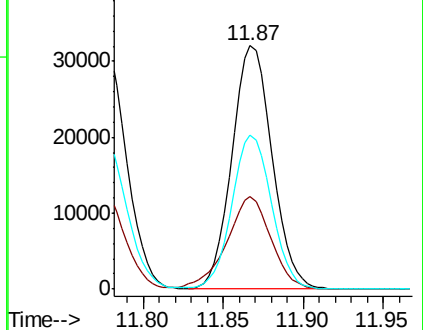
148 63.2 44.7 83.1

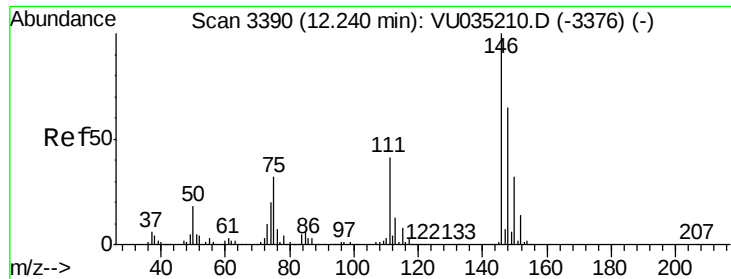


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.042 ug/L

RT: 12.24 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

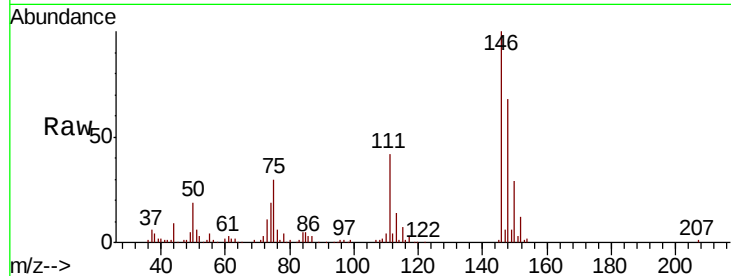
Tot Ion:146 Resp: 51804

Ion Ratio Lower Upper

146 100

111 41.9 33.0 49.6

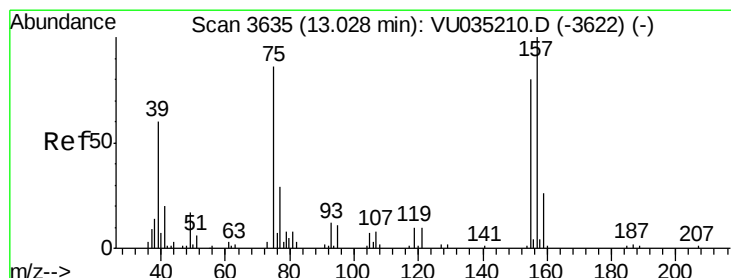
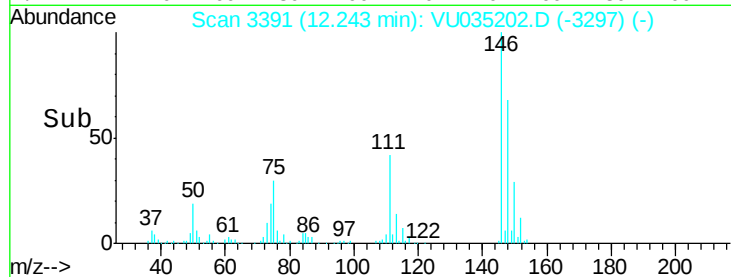
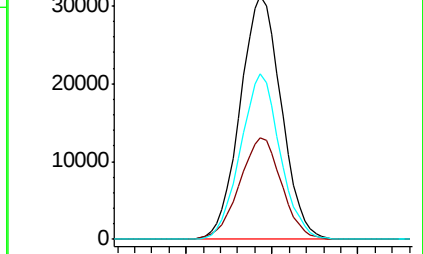
148 67.9 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 1.044 ug/L

RT: 13.03 min Scan# 3635

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

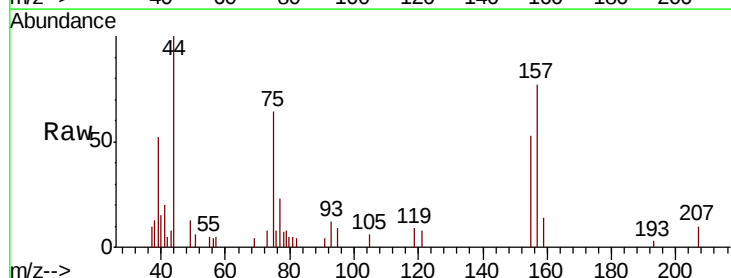
Tgt Ion: 75 Resp: 3315

Ion Ratio Lower Upper

75 100

155 82.6 70.0 105.0

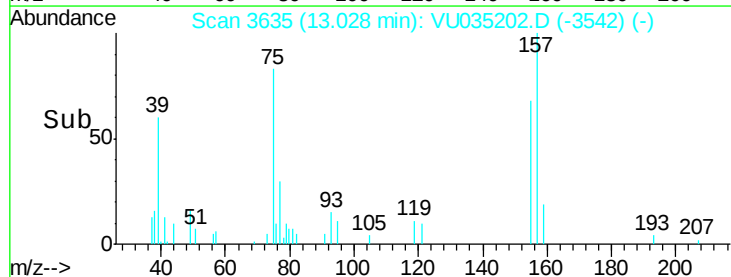
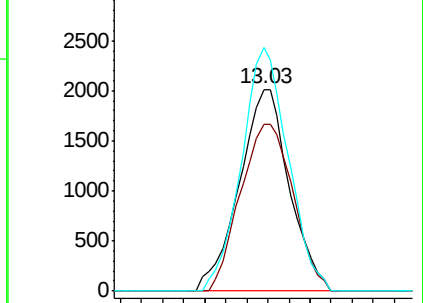
157 120.8 94.7 142.1

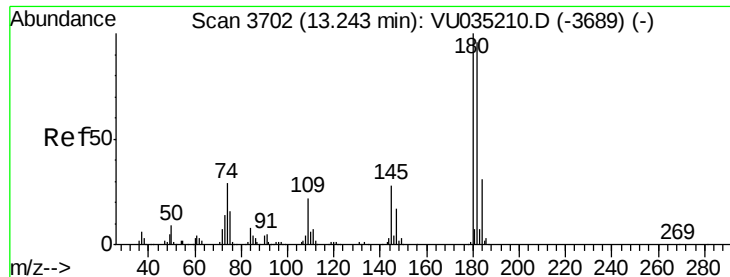


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

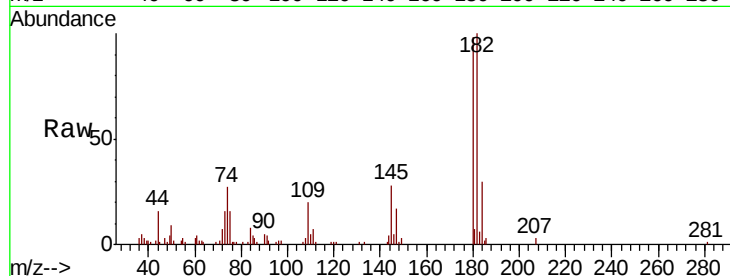




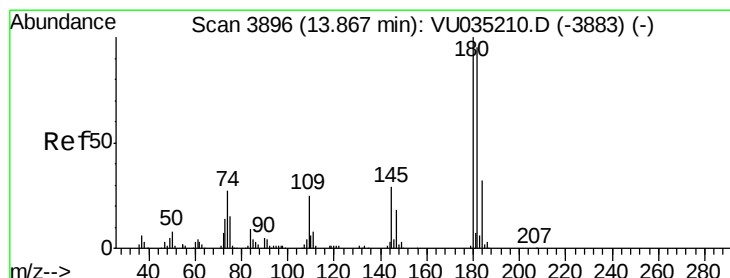
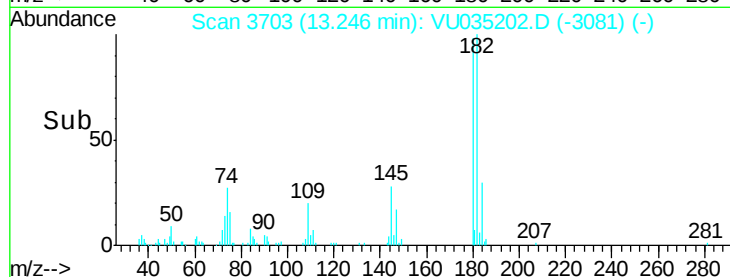
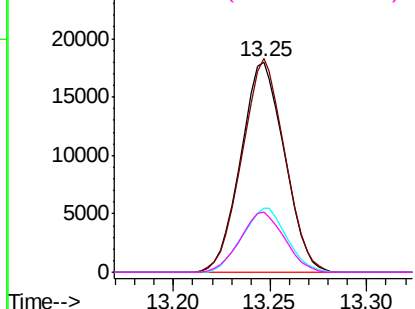
#67
 1,3,5-Trichlorobenzene
 Concen: 0.819 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00101

Tot Ion:180 Resp: 28272
 Ion Ratio Lower Upper
 180 100
 182 99.6 77.4 116.2
 184 31.1 23.9 35.9
 145 29.1 22.4 33.6

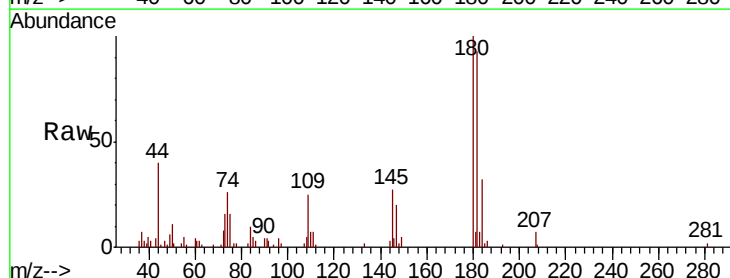


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

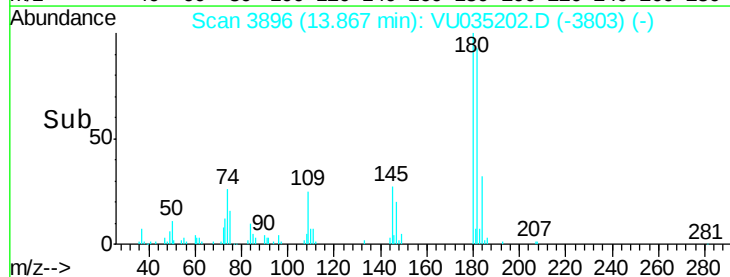
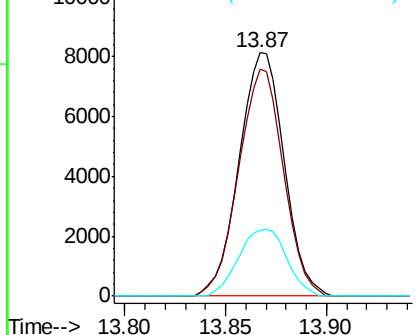


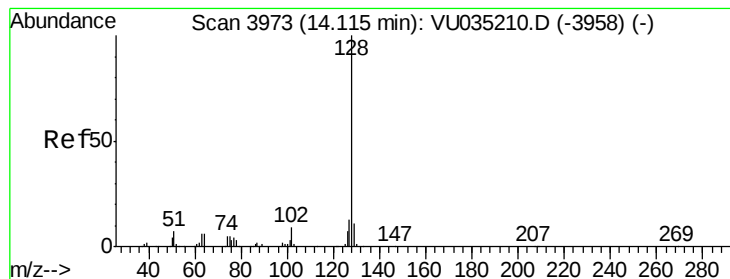
#68
 1,2,4-trichlorobenzene
 Concen: 0.509 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU035202.D
 Acq: 17 Oct 2019 10:02

Tgt Ion:180 Resp: 12731
 Ion Ratio Lower Upper
 180 100
 182 92.5 75.9 113.9
 145 29.1 23.4 35.2



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: 0.409 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD00101

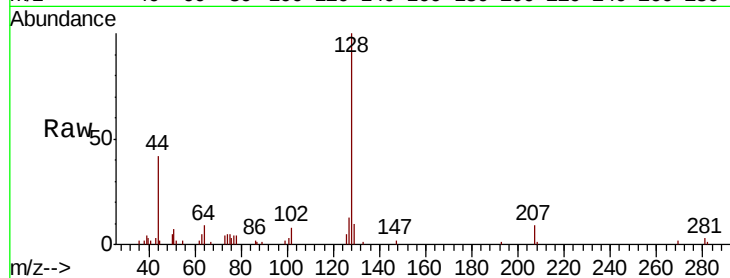
Tot Ion:128 Resp: 15307

Ion Ratio Lower Upper

128 100

129 11.5 8.6 13.0

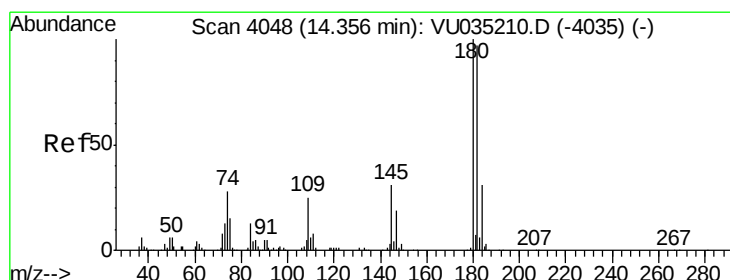
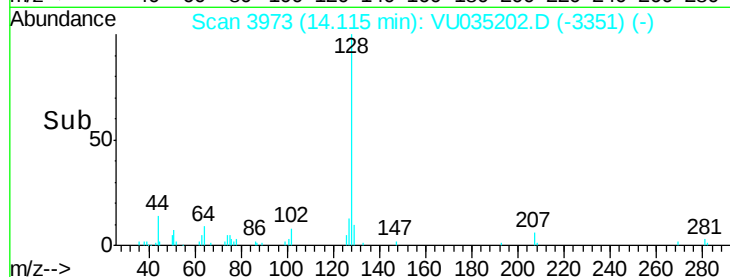
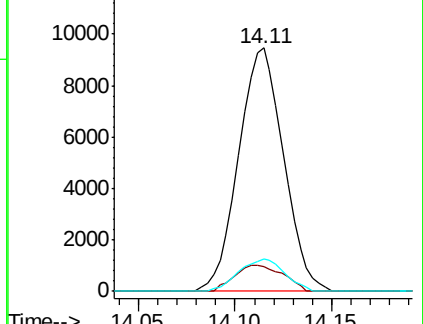
127 13.6 10.7 16.1



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: 0.504 ug/L

RT: 14.36 min Scan# 4048

Delta R.T. 0.00 min

Lab File: VU035202.D

Acq: 17 Oct 2019 10:02

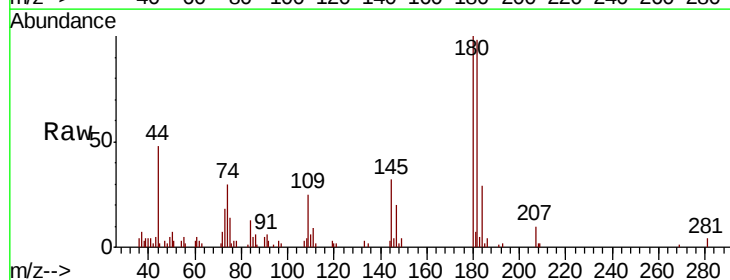
Tgt Ion:180 Resp: 12187

Ion Ratio Lower Upper

180 100

182 96.6 76.0 114.0

145 33.0 24.6 37.0



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

