

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035944.D
 Acq On : 03 Dec 2019 12:32
 Operator : JC/SP
 Sample : VSTD02002
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Quant Time: Dec 03 18:03:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 03 17:59:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	378670	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	376836	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	200775	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	821434	20.78	ug/L	0.00
7) Chloroethane-d5	1.93	69	668294	20.79	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	1171587	18.12	ug/L	0.00
20) 2-Butanone-d5	4.69	46	1573614	187.10	ug/L	0.00
24) Chloroform-d	5.11	84	1126770	18.47	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	569342	17.72	ug/L	0.00
32) Benzene-d6	5.77	84	2277959	19.55	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	719606	19.14	ug/L	0.00
41) Toluene-d8	7.93	98	2142313	19.44	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	302196	20.04	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	1417906	239.20	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	589897	18.73	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	768224	19.27	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	762910	18.867	ug/L 100
3) Chloromethane	1.54	50	846056	18.271	ug/L 100
5) Vinyl chloride	1.62	62	882535	18.587	ug/L 99
6) Bromomethane	1.87	94	512860	18.947	ug/L 97
8) Chloroethane	1.95	64	528898	19.338	ug/L 100
9) Trichlorofluoromethane	2.15	101	1015160	17.642	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	562263	16.714	ug/L 98
12) 1,1-Dichloroethene	2.60	96	532717	16.534	ug/L 93
13) Acetone	2.68	43	1131288	181.568	ug/L 99
14) Carbon disulfide	2.82	76	1818885	17.344	ug/L 99
15) Methyl Acetate	3.00	43	248681	17.625	ug/L 96
16) Methylene chloride	3.08	84	618504	16.007	ug/L 100
17) Methyl tert-butyl Ether	3.42	73	1361775	18.186	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	567405	17.137	ug/L 97
19) 1,1-Dichloroethane	3.92	63	1104362	17.817	ug/L 99
21) 2-Butanone	4.77	43	1808273	199.039	ug/L 95
22) cis-1,2-Dichloroethene	4.72	96	640091	17.671	ug/L 96
23) Bromochloromethane	5.02	128	278078	16.162	ug/L 96
25) Chloroform	5.14	83	1085887	16.118	ug/L 99
27) 1,2-Dichloroethane	5.84	62	704740	18.580	ug/L 98
29) 1,1,1-Trichloroethane	5.36	97	921070	18.985	ug/L 98
30) Cyclohexane	5.43	56	1055209	21.747	ug/L 99
31) Carbon tetrachloride	5.57	117	810309	18.645	ug/L 99
33) Benzene	5.82	78	2479999	19.070	ug/L 100
34) Trichloroethene	6.58	95	619064	18.766	ug/L 98
35) Methylcyclohexane	6.80	83	1077219	21.434	ug/L 96
37) 1,2-Dichloropropane	6.83	63	649452	18.939	ug/L 99
38) Bromodichloromethane	7.14	83	786757	18.932	ug/L 99
39) cis-1,3-Dichloropropene	7.64	75	976490	20.121	ug/L 100
40) 4-Methyl-2-pentanone	7.84	43	4135207	208.674	ug/L 98

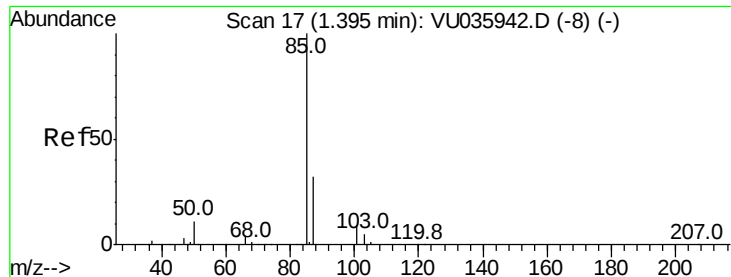
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	2698292	19.805	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	799305	20.516	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	447803	18.340	ug/L	98
47) Tetrachloroethene	8.58	164	502538	17.696	ug/L	97
48) 2-Hexanone	8.73	43	3091203	217.303	ug/L	98
49) Dibromochloromethane	8.84	129	545601	18.283	ug/L	96
50) 1,2-Dibromoethane	8.96	107	429284	18.488	ug/L	96
51) Chlorobenzene	9.48	112	1639276	18.574	ug/L	99
52) Ethylbenzene	9.60	91	2940885	20.700	ug/L	99
53) m,p-Xylene	9.72	106	1118297	20.766	ug/L	97
54) o-Xylene	10.13	106	1070955	20.749	ug/L	99
55) Styrene	10.14	104	1850067	21.591	ug/L	97
56) Isopropylbenzene	10.51	105	2844100	20.946	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	594280	18.554	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	424518	18.809	ug/L	97
61) Bromoform	10.32	173	322466	17.738	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	1321610	19.558	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	1316738	20.232	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	1260253	19.858	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	90160	21.663	ug/L	89
67) 1,3,5-Trichlorobenzene	13.24	180	997492	22.933	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	720740	27.601	ug/L	98
69) Naphthalene	14.11	128	1005151	32.008	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	671703	26.670	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 18.867 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

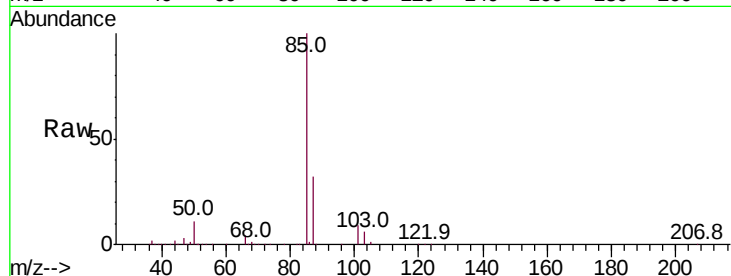
VSTD02002

Tot Ion: 85 Resp: 762910

Ion Ratio Lower Upper

85 100

87 31.9 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU035944.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU035944.D (-8) (-)

1.39

800000

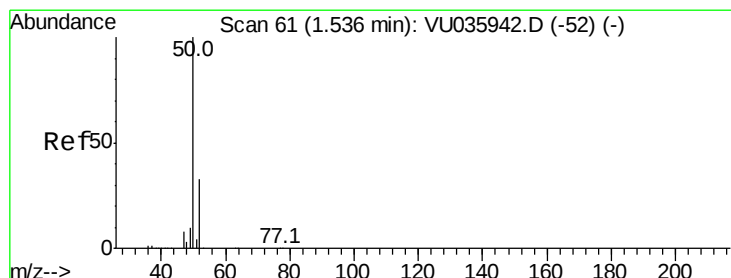
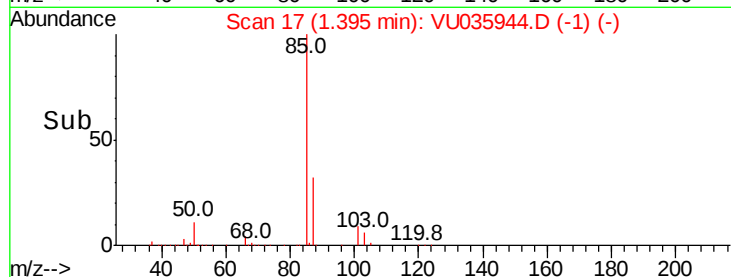
600000

400000

200000

0

Time-->



#3

Chloromethane

Concen: 18.271 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035944.D

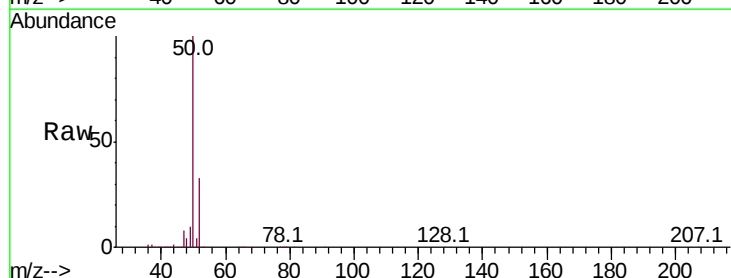
Acq: 03 Dec 2019 12:32

Tgt Ion: 50 Resp: 846056

Ion Ratio Lower Upper

50 100

52 32.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU035944.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU035944.D (-52) (-)

1.54

800000

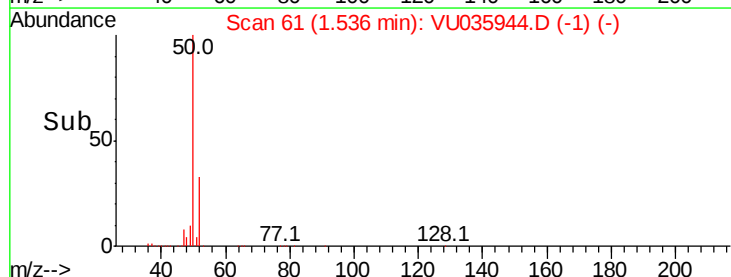
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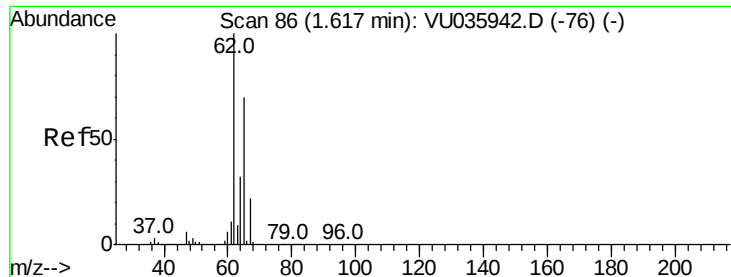
400000

200000

0

Time-->





#5

Vinyl chloride

Concen: 18.587 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

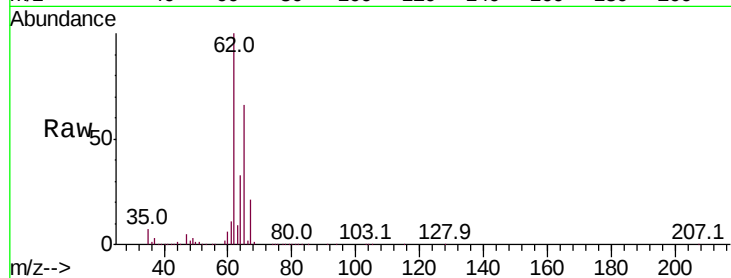
VSTD02002

Tot Ion: 62 Resp: 882535

Ion Ratio Lower Upper

62 100

64 33.2 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU035944.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU035944.D (-76) (-)

1.62

800000

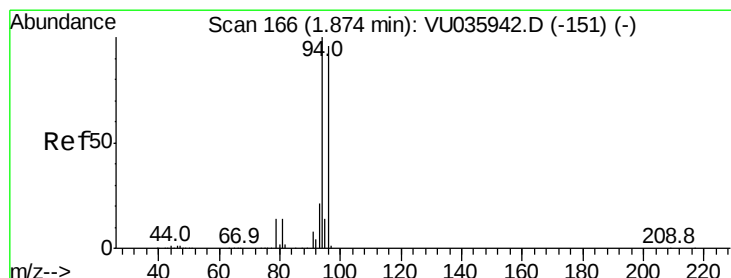
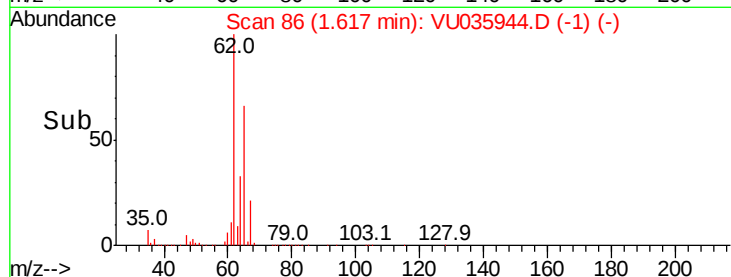
600000

400000

200000

0

Time--> 1.55 1.60 1.65 1.70 1.75



#6

Bromomethane

Concen: 18.947 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035944.D

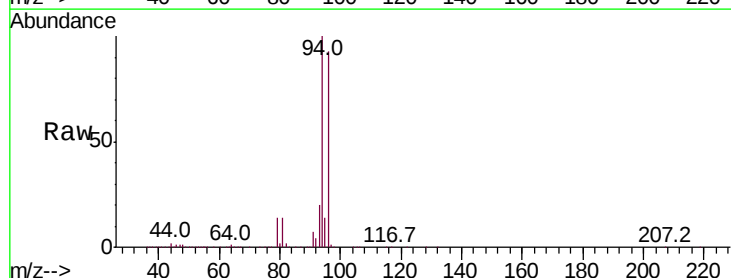
Acq: 03 Dec 2019 12:32

Tgt Ion: 94 Resp: 512860

Ion Ratio Lower Upper

94 100

96 93.3 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU035944.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU035944.D (-151) (-)

1.87

500000

400000

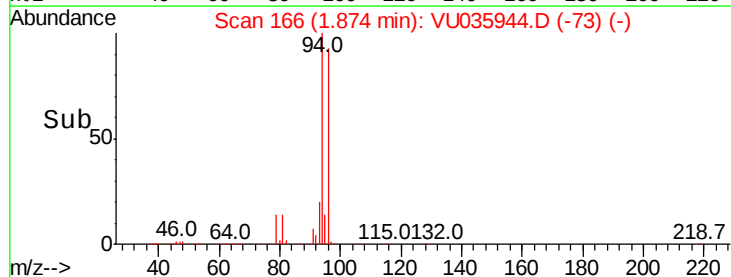
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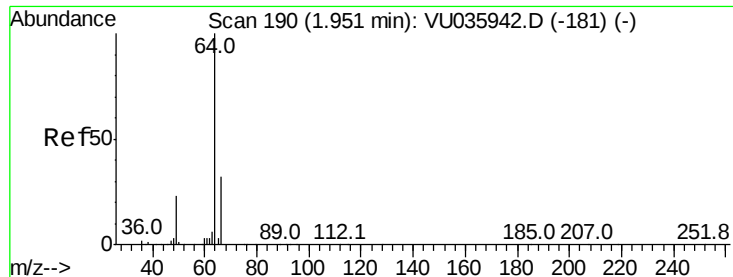
200000

100000

0

Time--> 1.80 1.85 1.90 1.95





#8

Chloroethane

Concen: 19.338 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

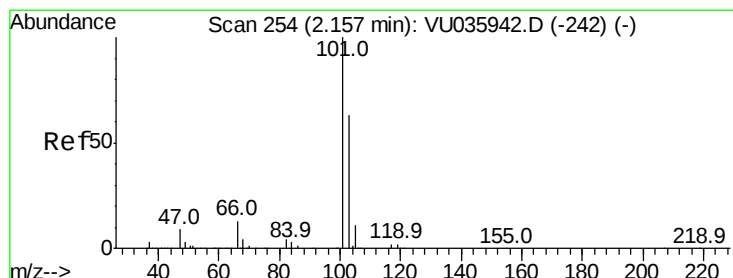
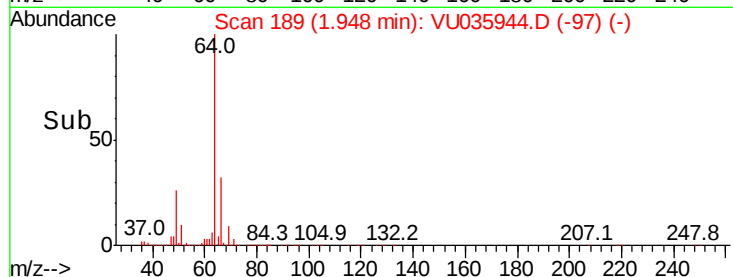
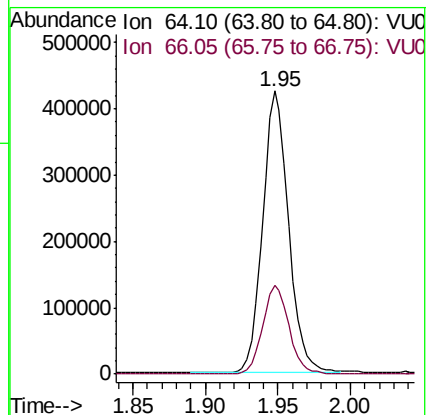
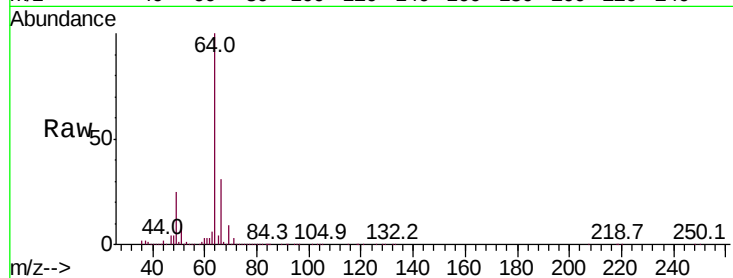
VSTD02002

Tot Ion: 64 Resp: 528898

Ion Ratio Lower Upper

64 100

66 31.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 17.642 ug/L

RT: 2.15 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU035944.D

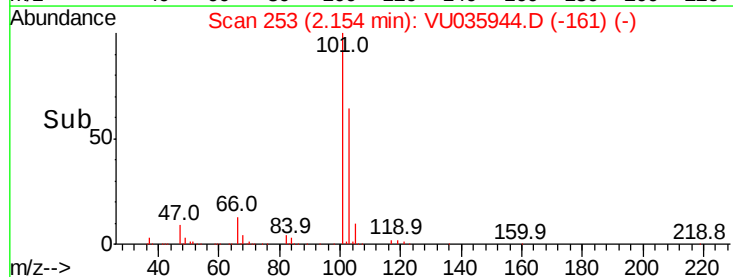
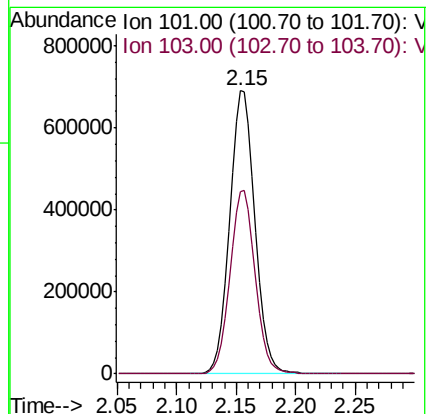
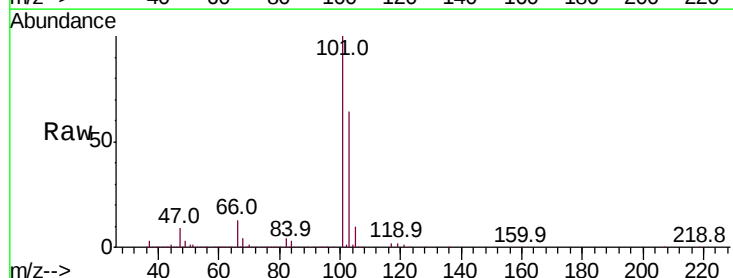
Acq: 03 Dec 2019 12:32

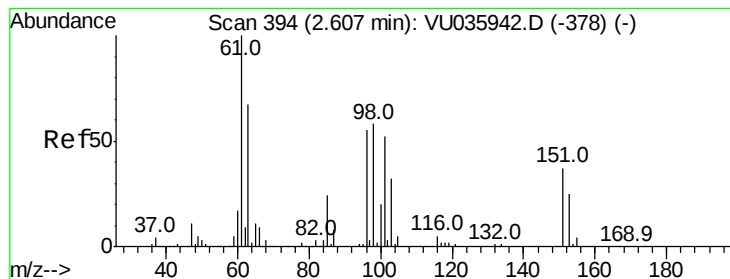
Tgt Ion: 101 Resp: 1015160

Ion Ratio Lower Upper

101 100

103 64.6 51.8 77.8





#10

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

Concen: 16.714 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

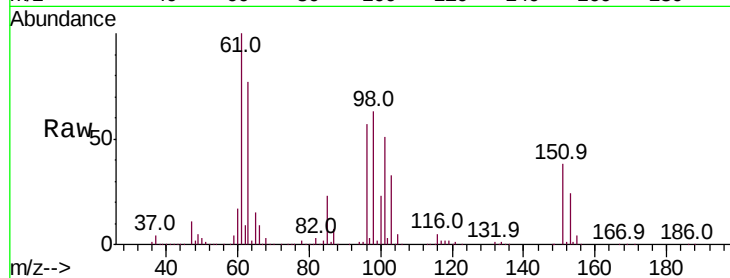
Tot Ion:101 Resp: 562263

Ion Ratio Lower Upper

101 100

85 44.0 35.5 53.3

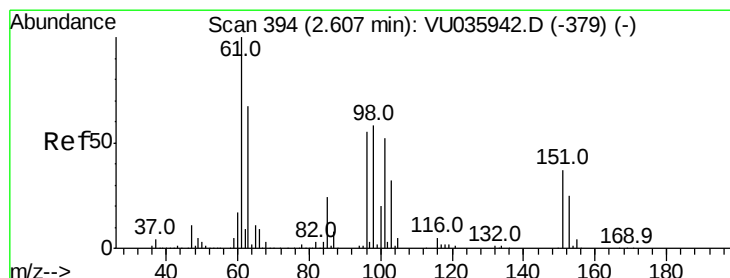
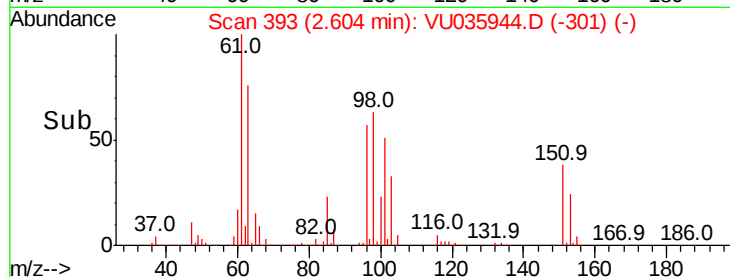
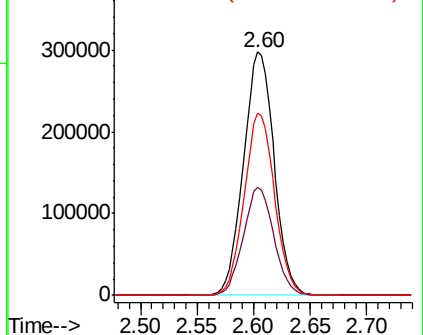
151 74.0 57.5 86.3



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: 16.534 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

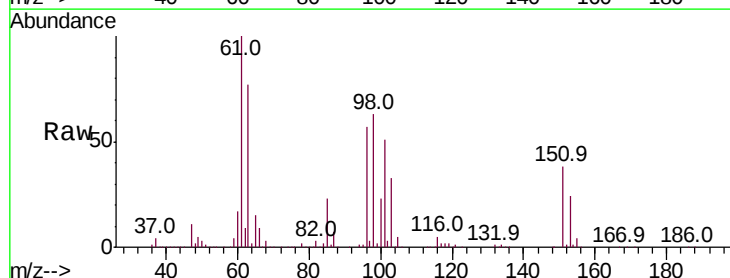
Tgt Ion: 96 Resp: 532717

Ion Ratio Lower Upper

96 100

61 174.7 127.1 236.1

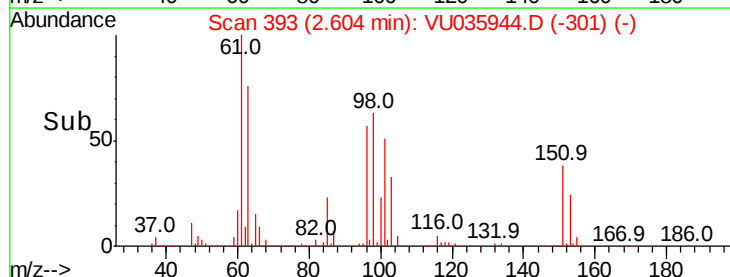
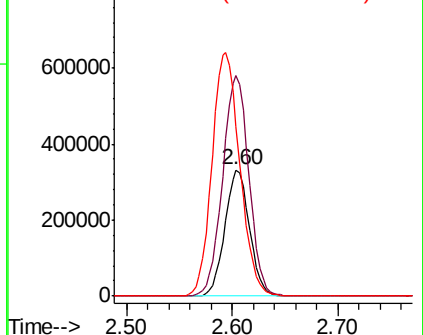
63 133.7 86.0 159.8

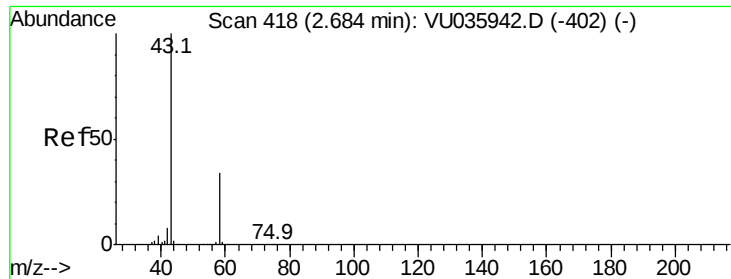


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 181.568 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

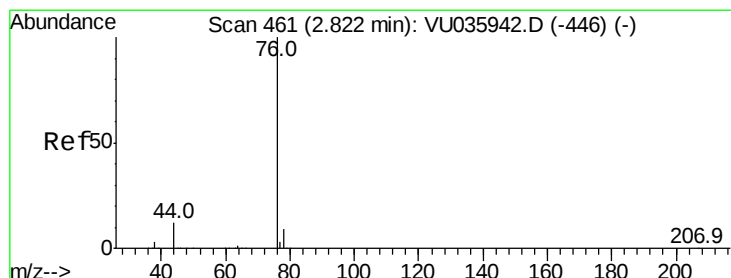
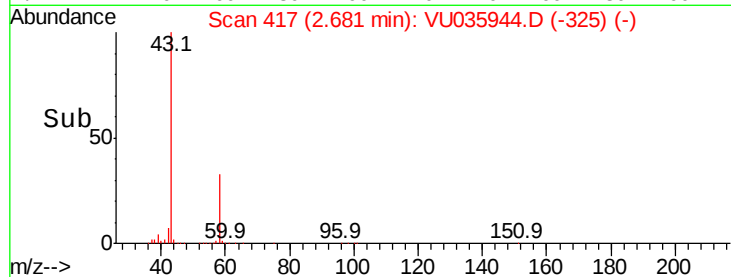
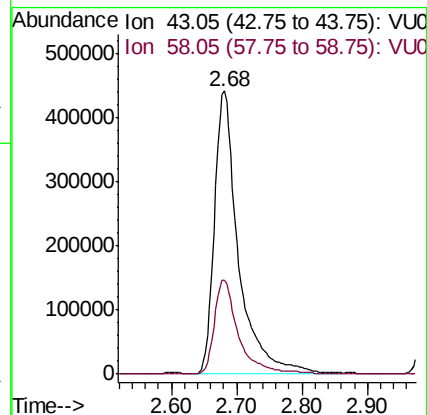
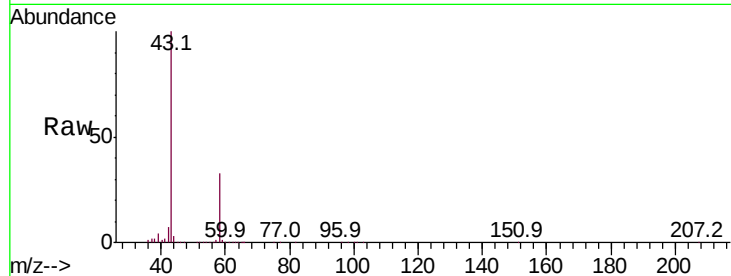
VSTD02002

Tot Ion: 43 Resp: 1131288

Ion Ratio Lower Upper

43 100

58 33.8 0.0 68.6



#14

Carbon disulfide

Concen: 17.344 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU035944.D

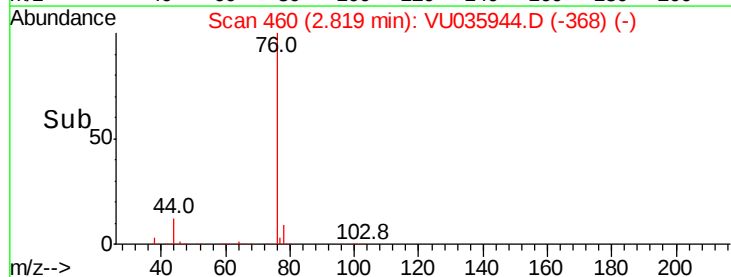
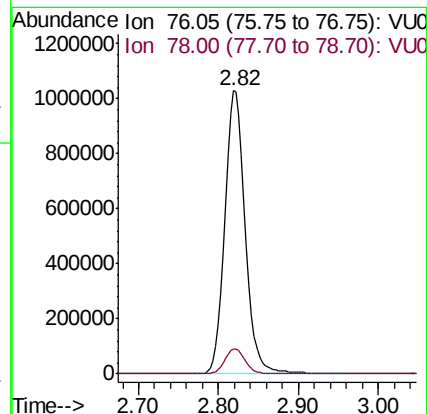
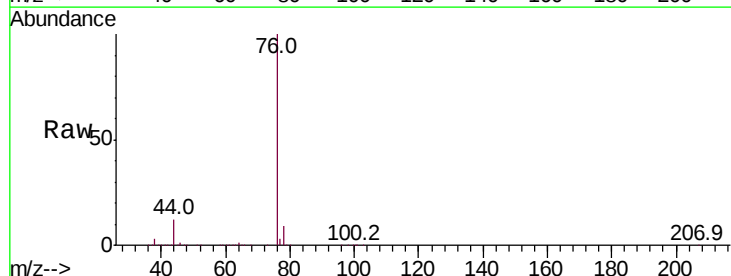
Acq: 03 Dec 2019 12:32

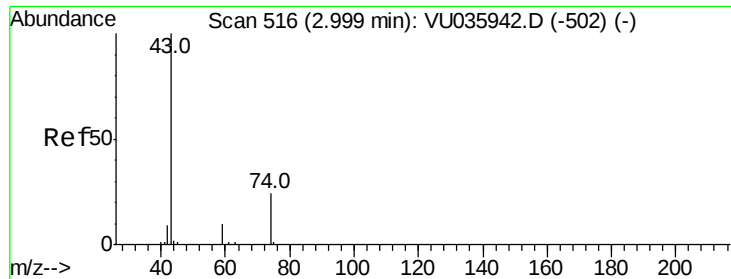
Tgt Ion: 76 Resp: 1818885

Ion Ratio Lower Upper

76 100

78 9.0 6.9 10.3

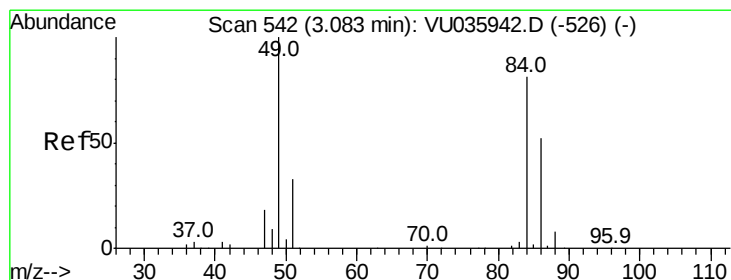
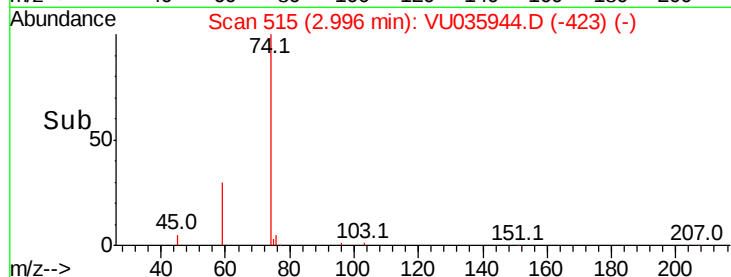
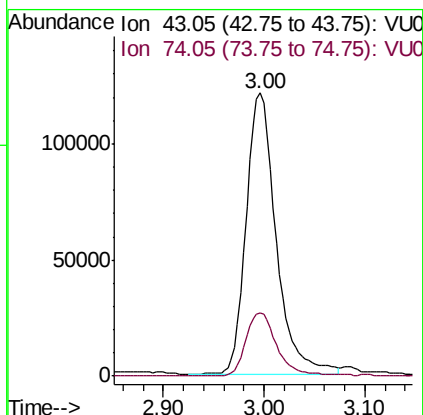
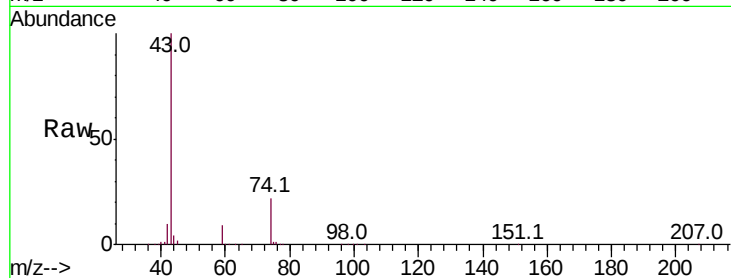




#15
Methvl Acetate
Concen: 17.625 ug/L
RT: 3.00 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

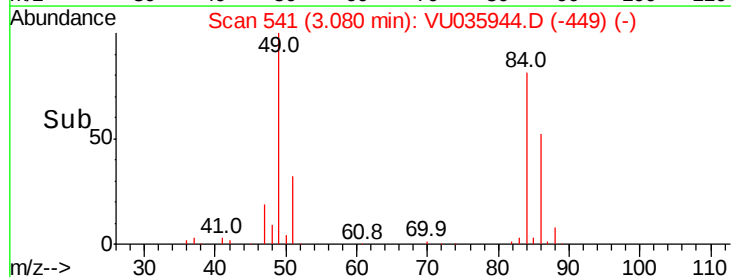
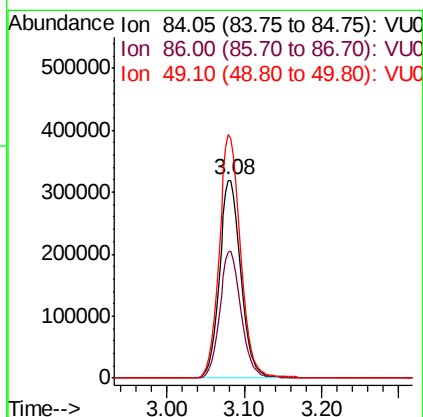
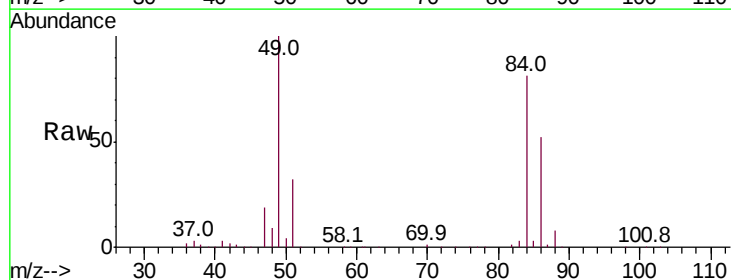
Instrument :
MSVOA_U
ClientSampled :
VSTD02002

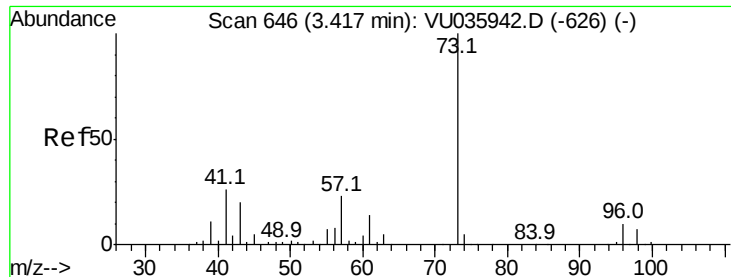
Tot Ion: 43 Resp: 248681
Ion Ratio Lower Upper
43 100
74 23.2 20.0 30.0



#16
Methylene chloride
Concen: 16.007 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Tgt Ion: 84 Resp: 618504
Ion Ratio Lower Upper
84 100
86 64.0 44.7 82.9
49 123.2 86.2 160.2



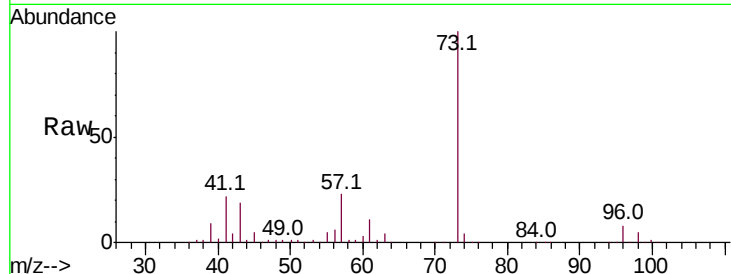


#17

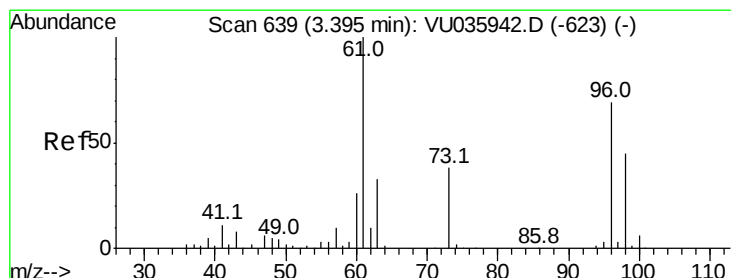
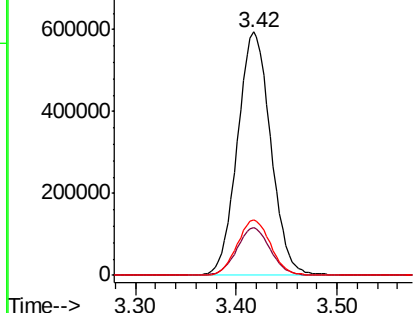
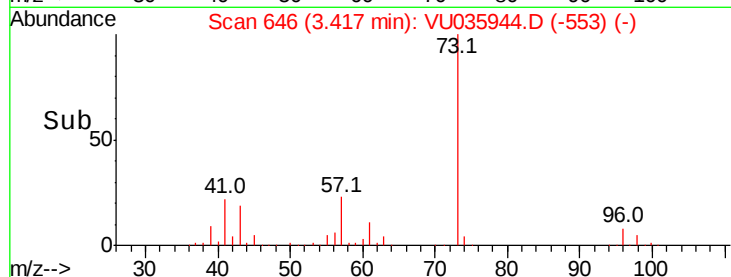
Methvl tert-butvl Ether
 Concen: 18.186 ug/L
 RT: 3.42 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion: 73 Resp: 1361775
 Ion Ratio Lower Upper
 73 100
 43 19.5 15.9 23.9
 57 22.8 18.8 28.2



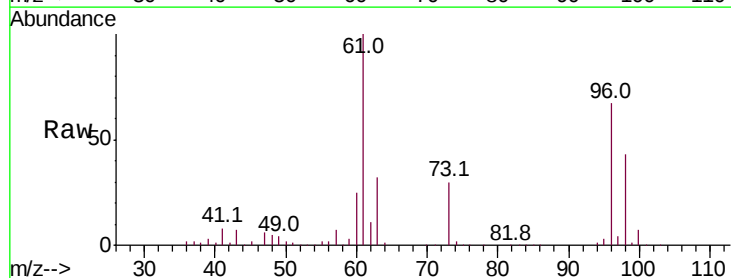
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



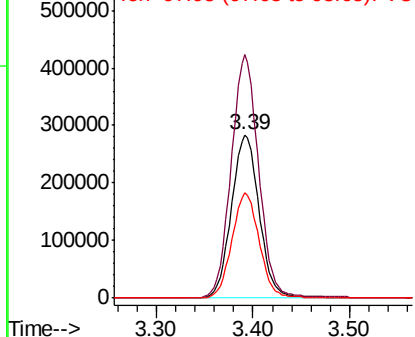
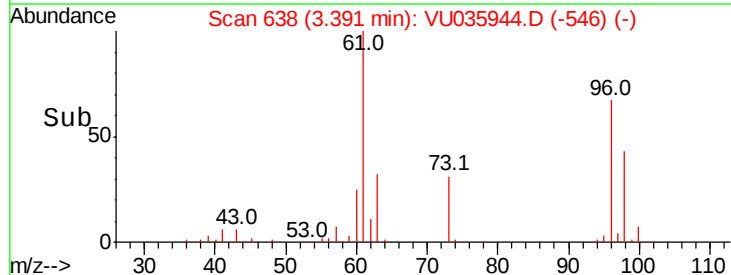
#18

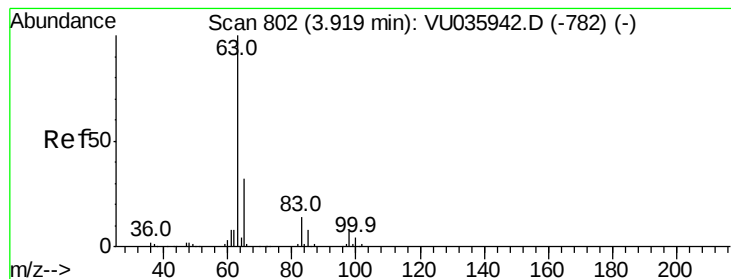
trans-1,2-Dichloroethene
 Concen: 17.137 ug/L
 RT: 3.39 min Scan# 638
 Delta R.T. -0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Tgt Ion: 96 Resp: 567405
 Ion Ratio Lower Upper
 96 100
 61 149.1 101.2 187.8
 98 64.3 45.0 83.6



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: 17.817 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

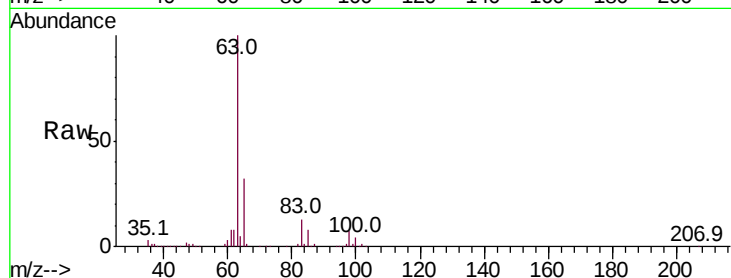
Tot Ion: 63 Resp: 1104362

Ion Ratio Lower Upper

63 100

65 32.1 22.4 41.6

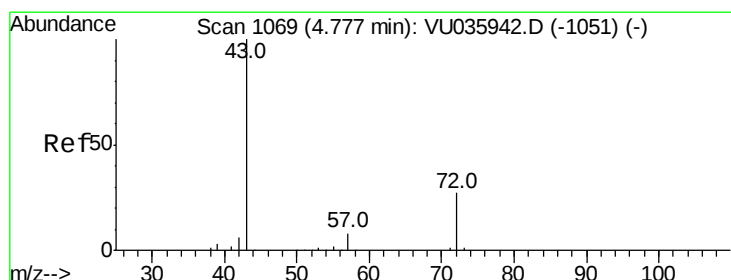
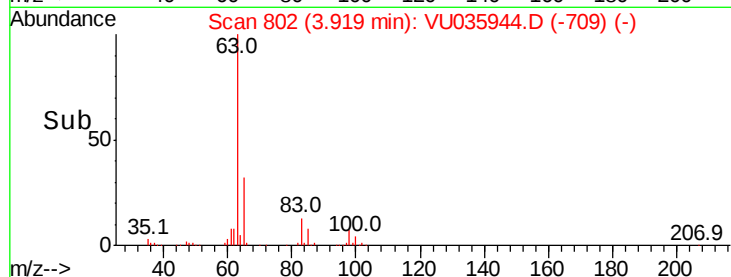
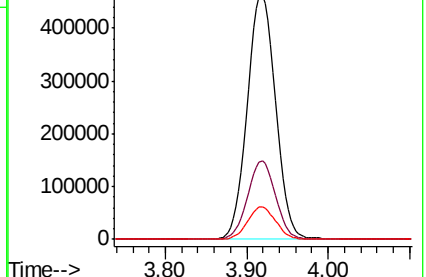
83 13.2 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU035942.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU035942.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU035942.D (-782) (-)



#21

2-Butanone

Concen: 199.039 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU035944.D

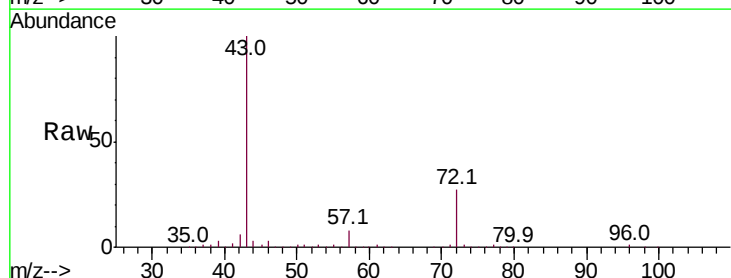
Acq: 03 Dec 2019 12:32

Tgt Ion: 43 Resp: 1808273

Ion Ratio Lower Upper

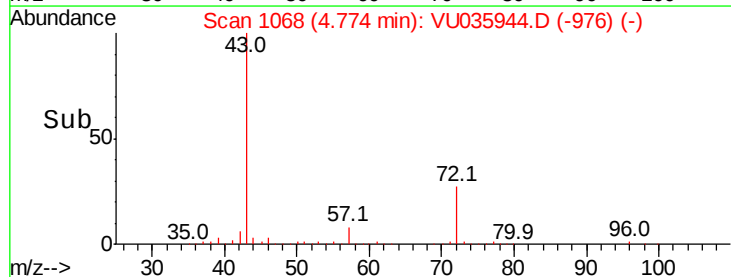
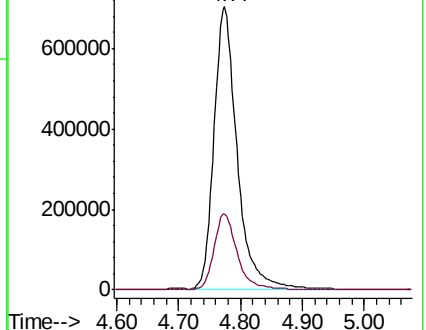
43 100

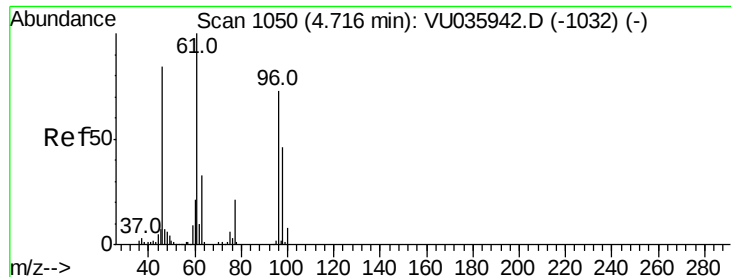
72 27.7 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU035942.D (-1051) (-)

Ion 72.10 (71.80 to 72.80): VU035942.D (-1051) (-)





#22

cis-1,2-Dichloroethene

Concen: 17.671 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

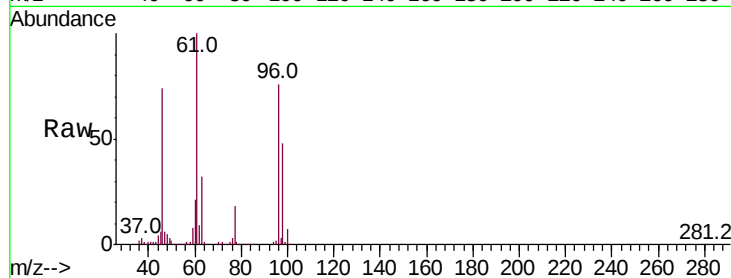
Tot Ion: 96 Resp: 640091

Ion Ratio Lower Upper

96 100

61 132.4 95.7 177.7

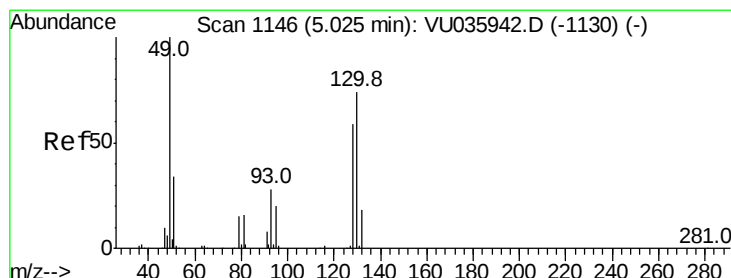
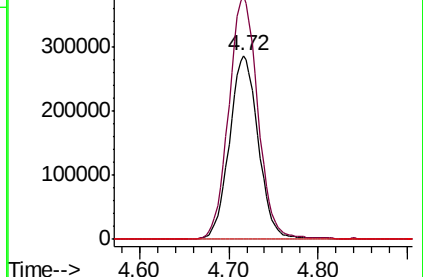
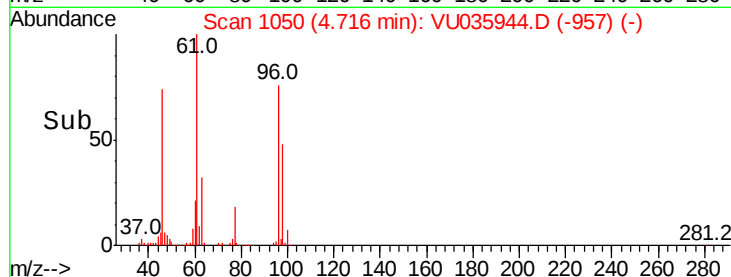
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035944.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU035944.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU035944.D (-957) (-)



#23

Bromochloromethane

Concen: 16.162 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Tgt Ion: 128 Resp: 278078

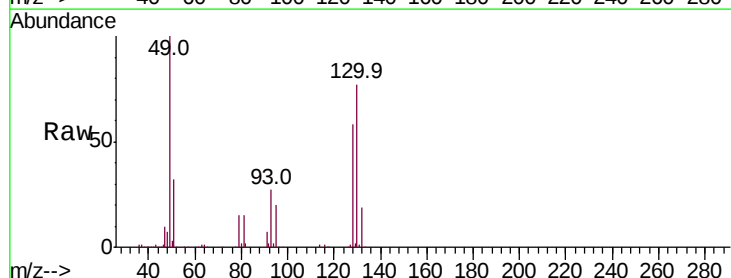
Ion Ratio Lower Upper

128 100

49 171.8 118.3 219.7

130 131.9 86.9 161.3

51 55.7 45.6 68.4

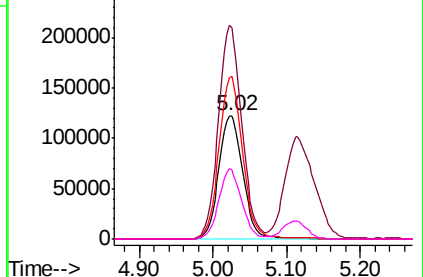
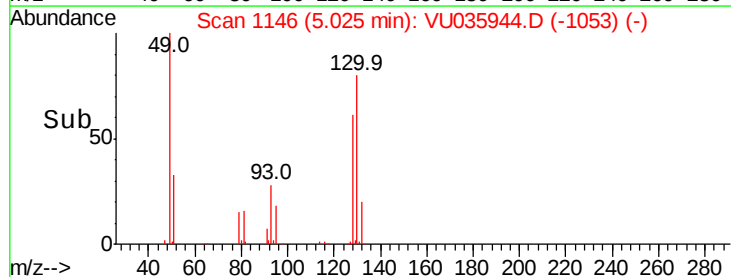


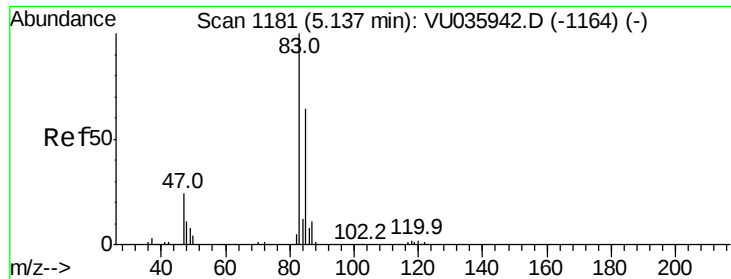
Abundance Ion 127.90 (127.60 to 128.60): VU035944.D (-1053) (-)

Ion 49.10 (48.80 to 49.80): VU035944.D (-1053) (-)

Ion 129.95 (129.65 to 130.65): VU035944.D (-1053) (-)

Ion 51.05 (50.75 to 51.75): VU035944.D (-1053) (-)

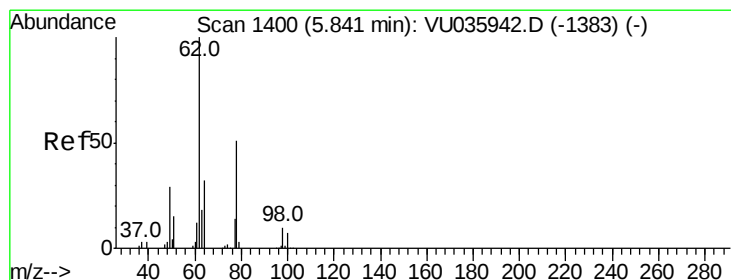
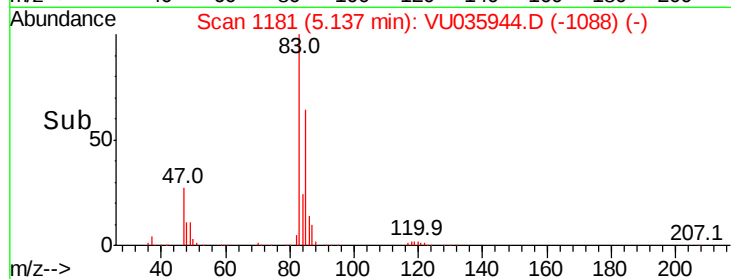
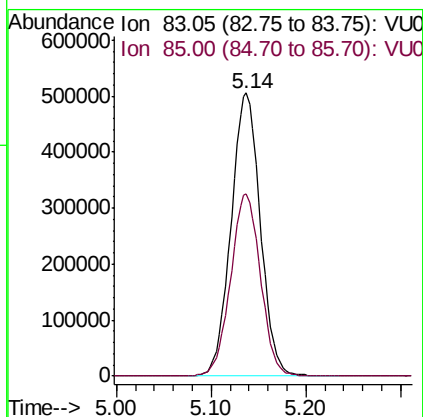
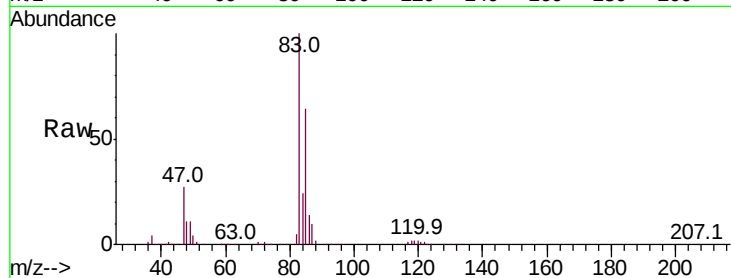




#25
Chloroform
Concen: 16.118 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

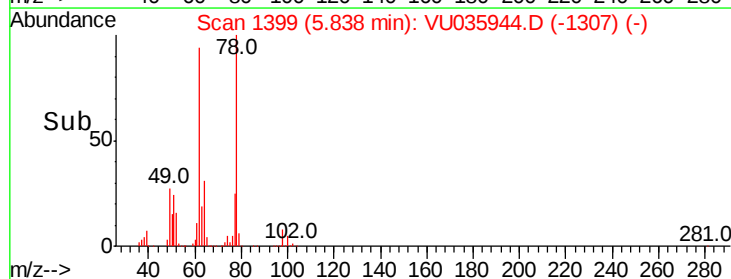
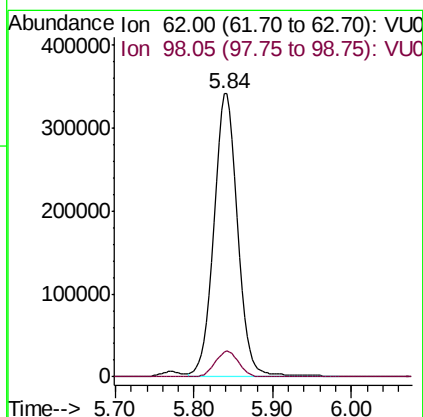
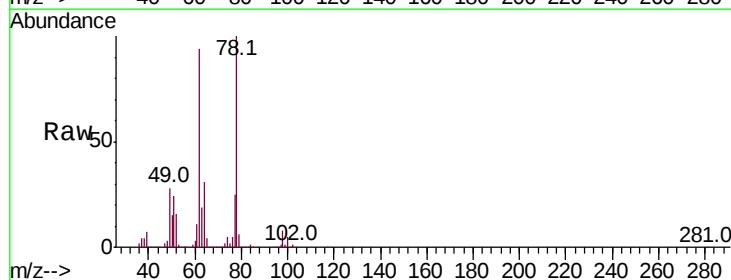
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

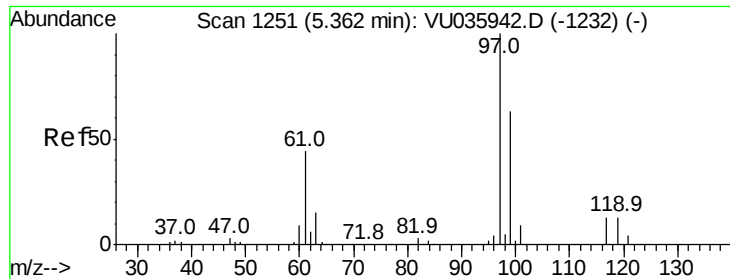
Tot Ion: 83 Resp: 1085887
Ion Ratio Lower Upper
83 100
85 64.3 45.4 84.2



#27
1,2-Dichloroethane
Concen: 18.580 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Tgt Ion: 62 Resp: 704740
Ion Ratio Lower Upper
62 100
98 8.9 7.6 11.4

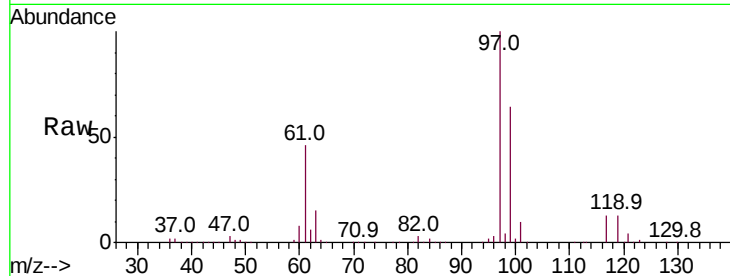




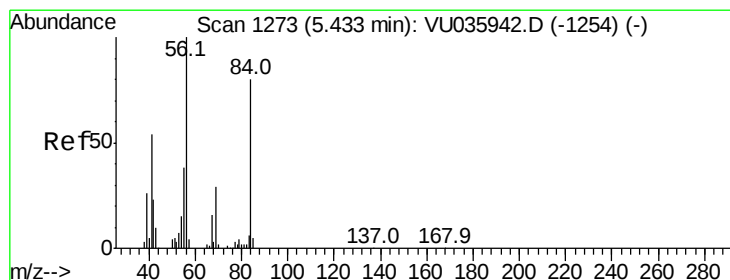
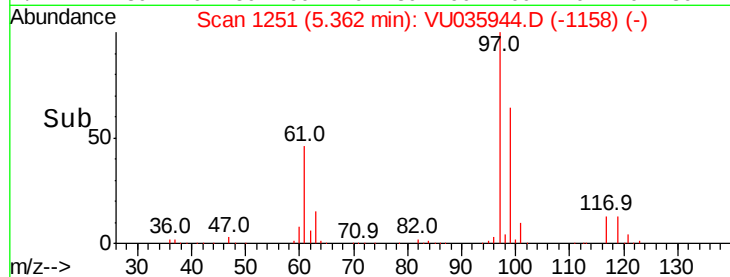
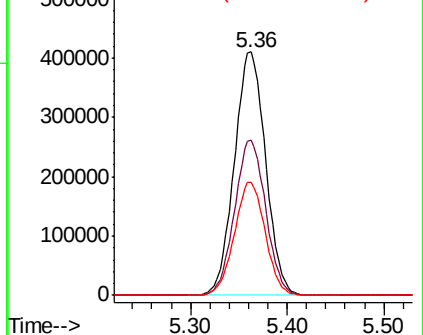
#29
 1,1,1-Trichloroethane
 Concen: 18.985 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion: 97 Resp: 921070
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.8 77.8
 61 45.8 37.6 56.4

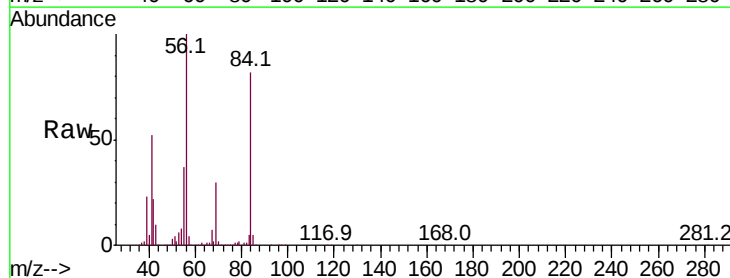


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

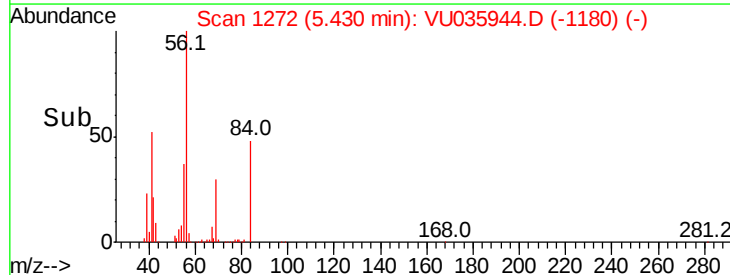
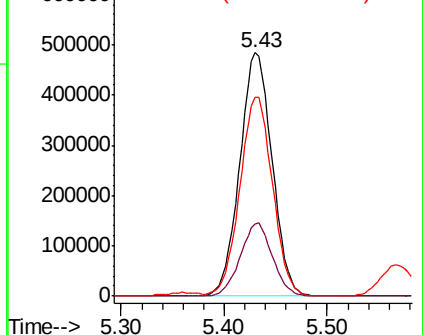


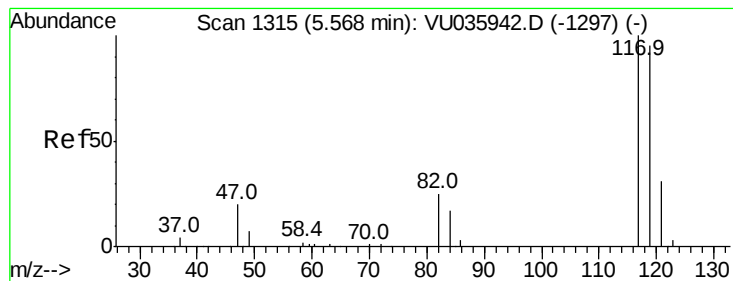
#30
 Cyclohexane
 Concen: 21.747 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Tgt Ion: 56 Resp: 1055209
 Ion Ratio Lower Upper
 56 100
 69 29.8 24.0 36.0
 84 82.5 66.9 100.3



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: 18.645 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

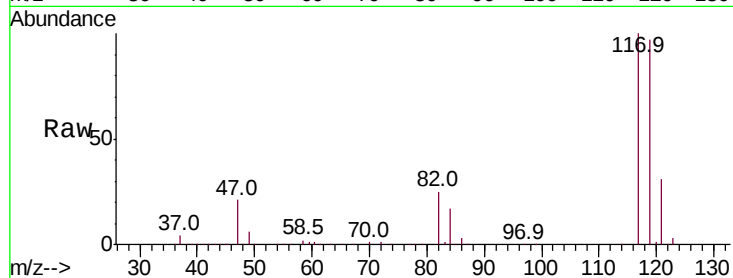
VSTD02002

Tot Ion:117 Resp: 810309

Ion Ratio Lower Upper

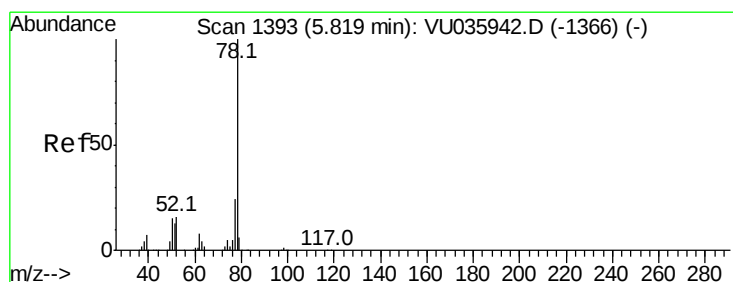
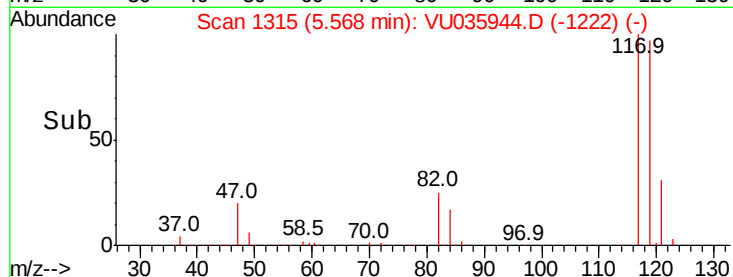
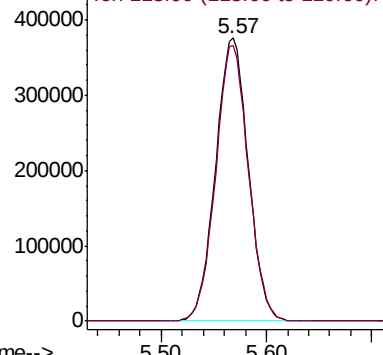
117 100

119 97.4 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 19.070 ug/L

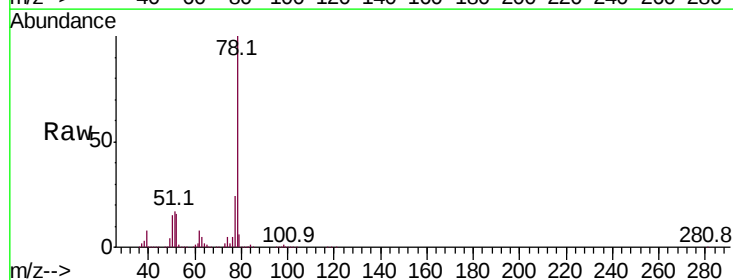
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

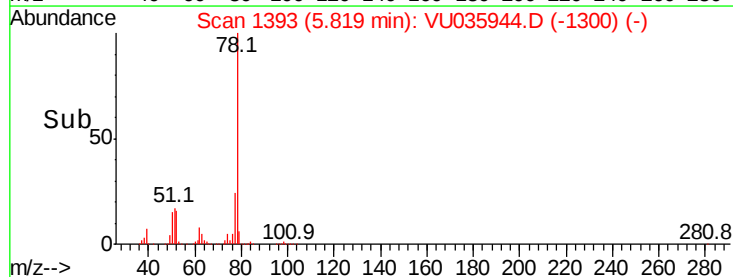
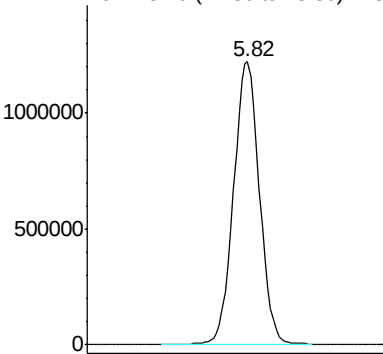
Lab File: VU035944.D

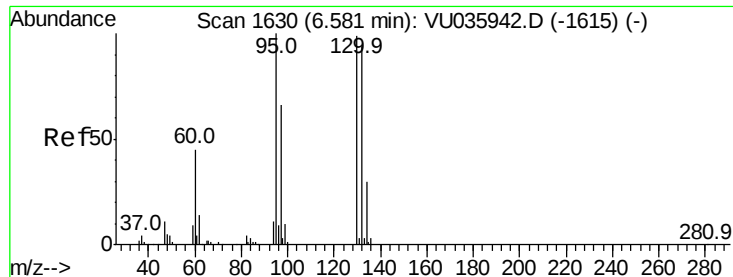
Acq: 03 Dec 2019 12:32

Tgt Ion: 78 Resp: 2479999



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 18.766 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

Tot Ion: 95 Resp: 619064

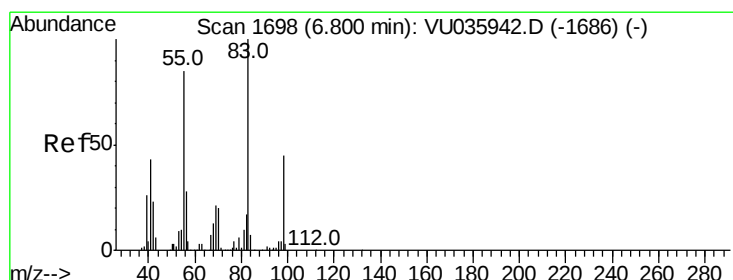
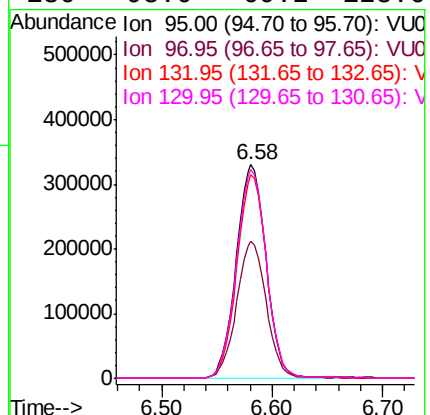
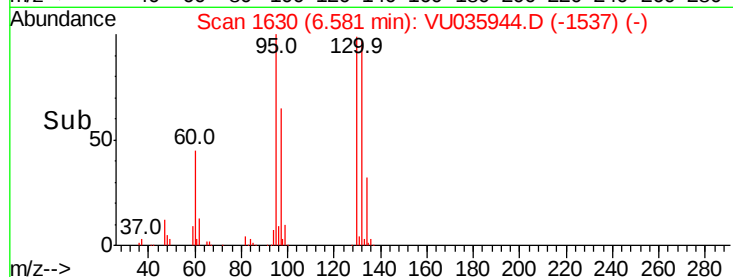
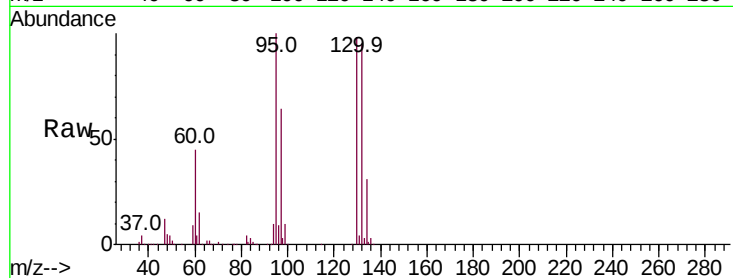
Ion Ratio Lower Upper

95 100

97 64.1 46.3 85.9

132 95.3 65.7 122.1

130 98.0 69.2 128.6



#35

Methylcyclohexane

Concen: 21.434 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

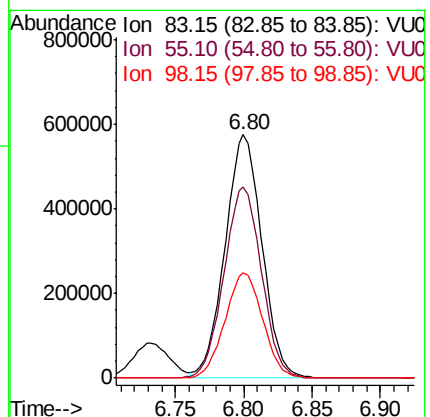
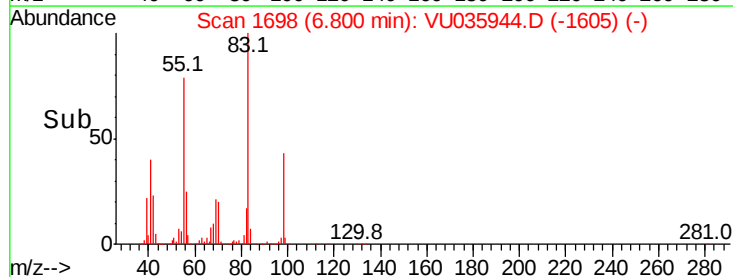
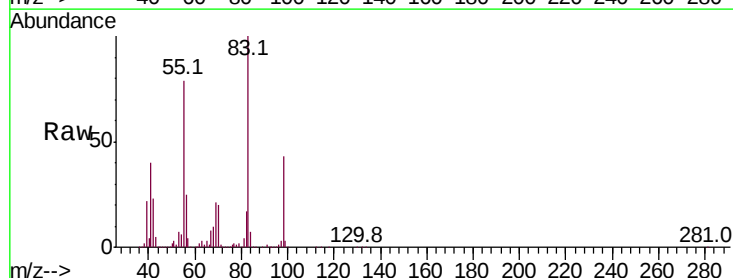
Tgt Ion: 83 Resp: 1077219

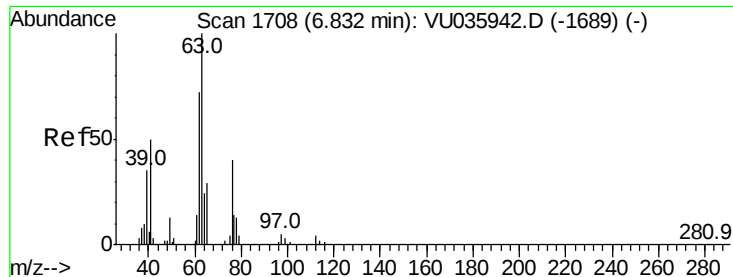
Ion Ratio Lower Upper

83 100

55 79.9 67.4 101.0

98 44.4 34.6 52.0





#37

1,2-Dichloropropane

Concen: 18.939 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

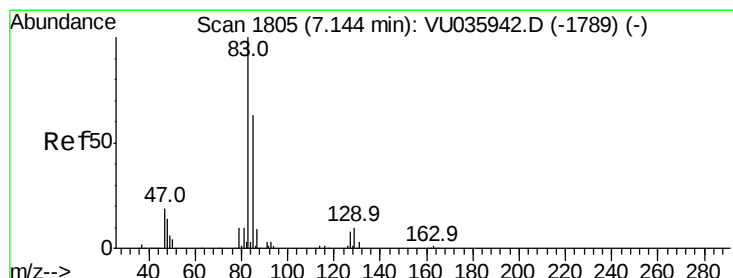
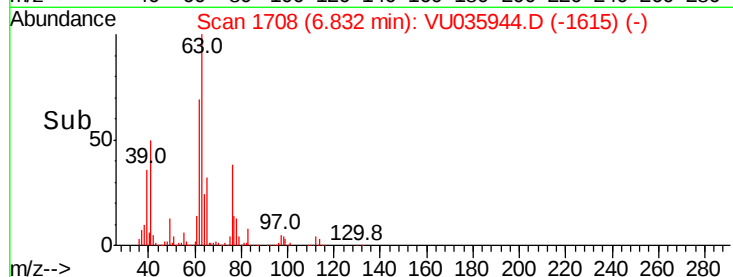
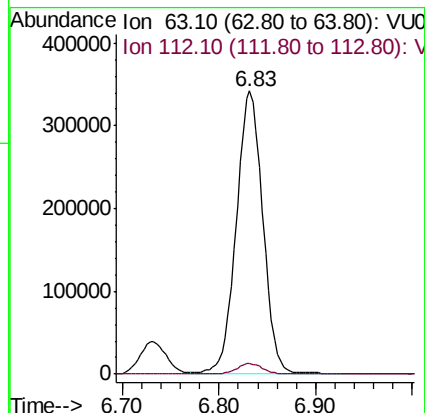
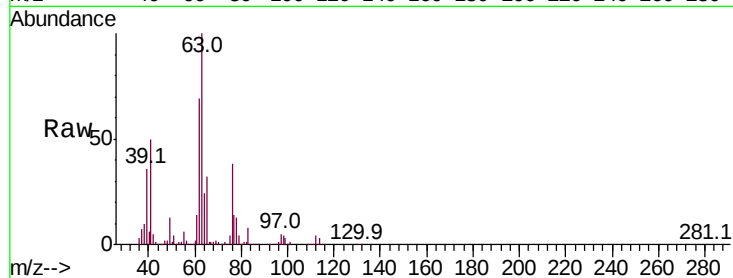
VSTD02002

Tot Ion: 63 Resp: 649452

Ion Ratio Lower Upper

63 100

112 3.7 3.3 4.9



#38

Bromodichloromethane

Concen: 18.932 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

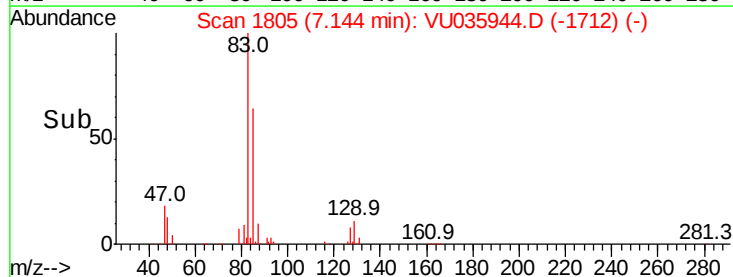
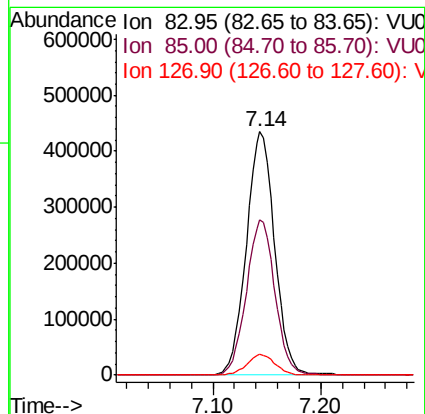
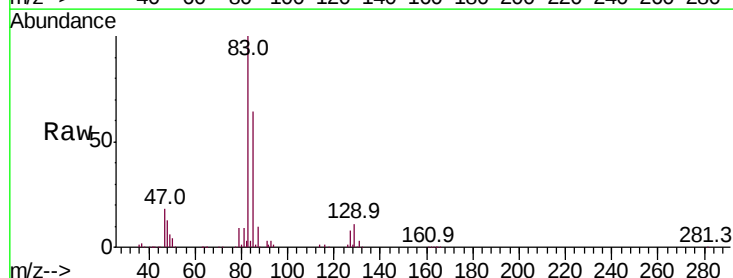
Tgt Ion: 83 Resp: 786757

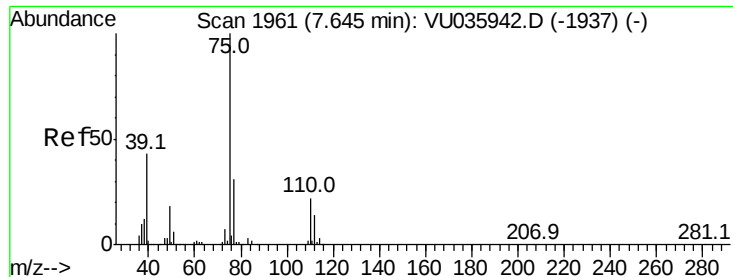
Ion Ratio Lower Upper

83 100

85 63.6 44.0 81.8

127 8.4 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 20.121 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. -0.00 min

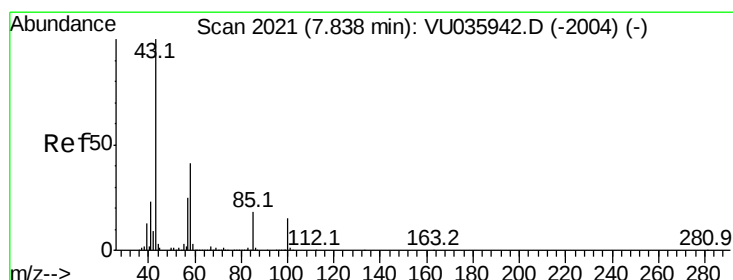
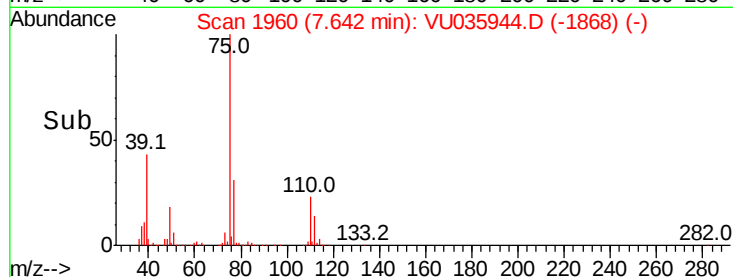
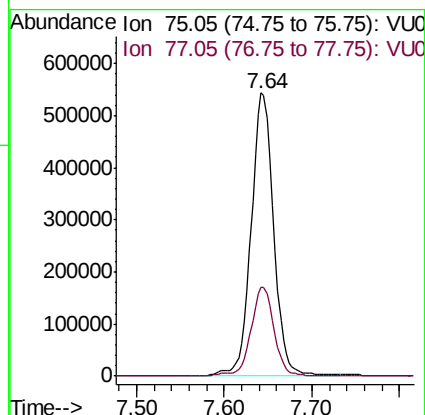
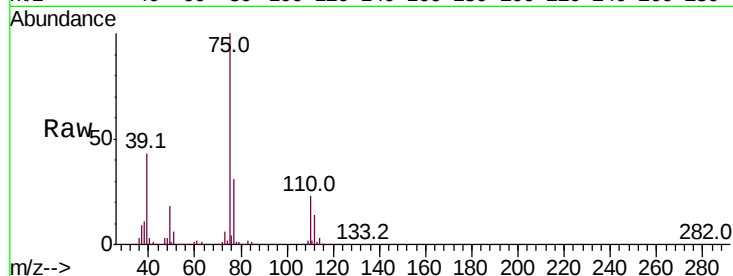
Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

Tot Ion: 75 Resp: 976490

Ion	Ratio	Lower	Upper
75	100		
77	31.3	21.9	40.7



#40

4-Methyl-2-pentanone

Concen: 208.674 ug/L

RT: 7.84 min Scan# 2021

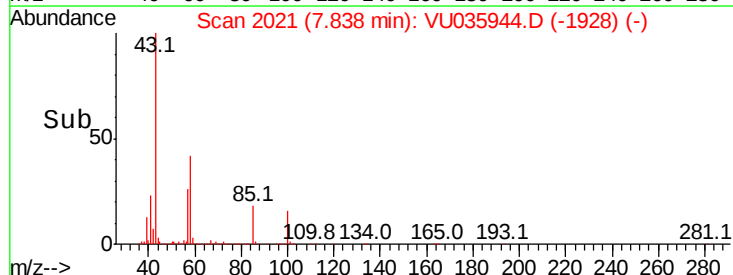
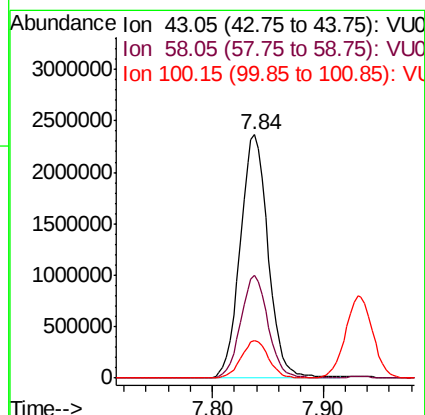
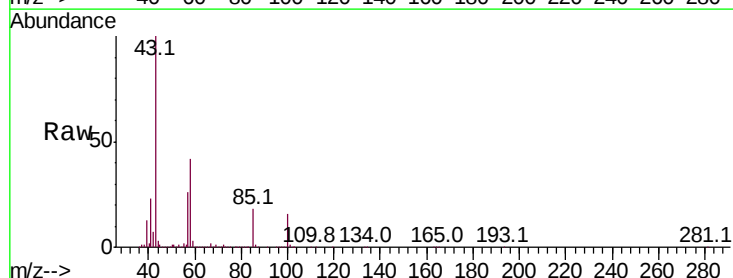
Delta R.T. 0.00 min

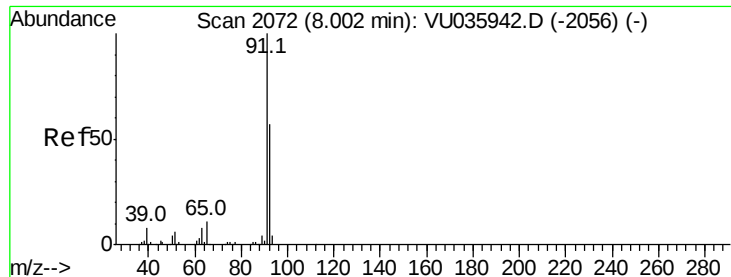
Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Tgt Ion: 43 Resp: 4135207

Ion	Ratio	Lower	Upper
43	100		
58	41.5	32.3	48.5
100	15.2	11.7	17.5





#42

Toluene

Concen: 19.805 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

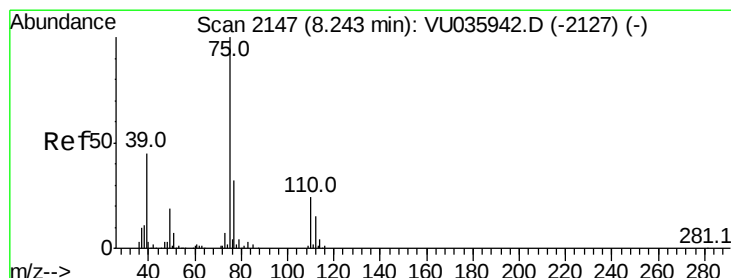
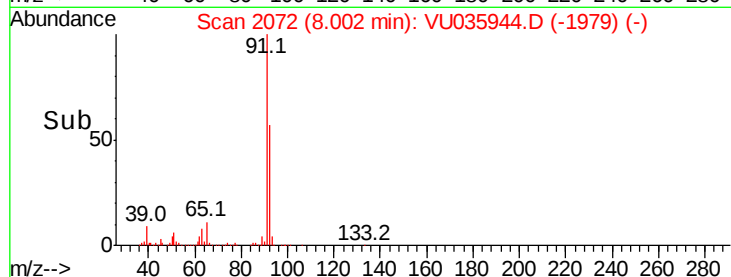
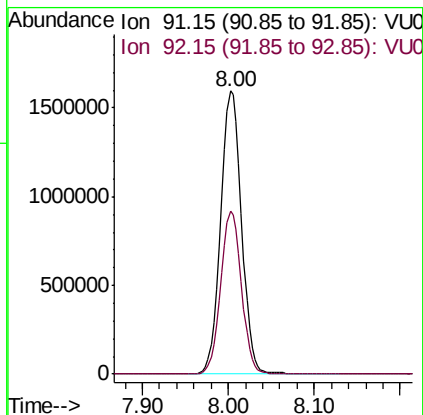
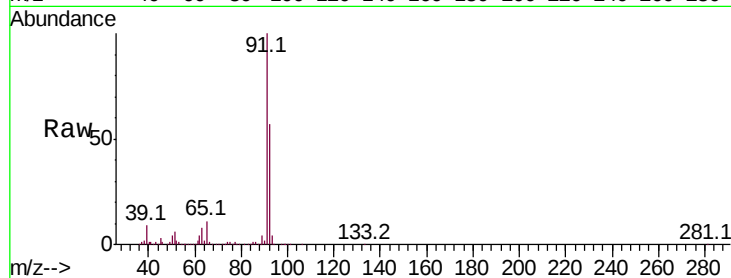
VSTD02002

Tot Ion: 91 Resp: 2698292

Ion Ratio Lower Upper

91 100

92 57.5 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 20.516 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU035944.D

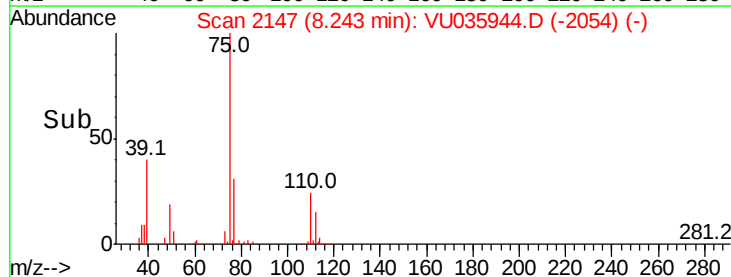
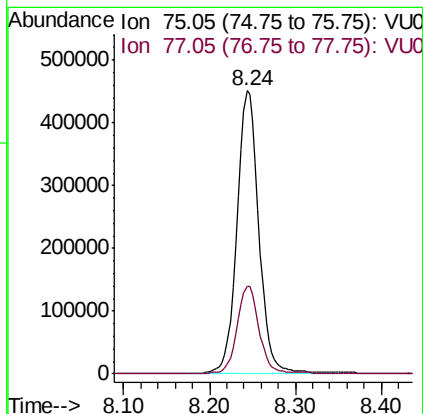
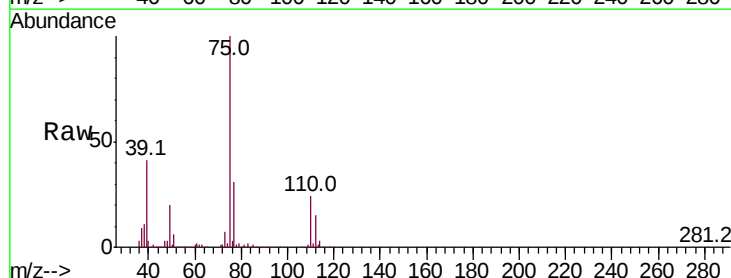
Acq: 03 Dec 2019 12:32

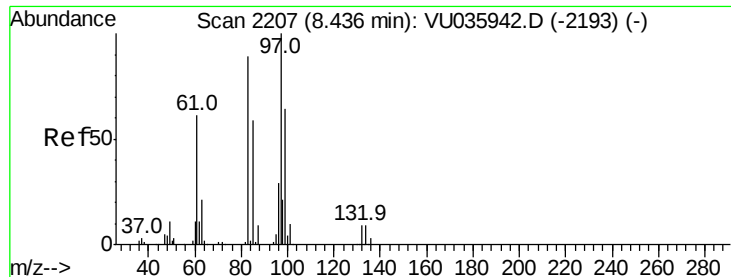
Tgt Ion: 75 Resp: 799305

Ion Ratio Lower Upper

75 100

77 31.0 22.4 41.6

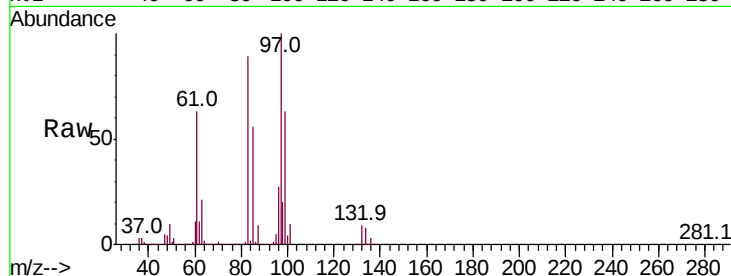




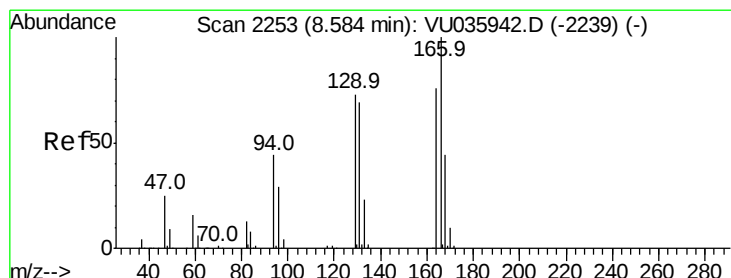
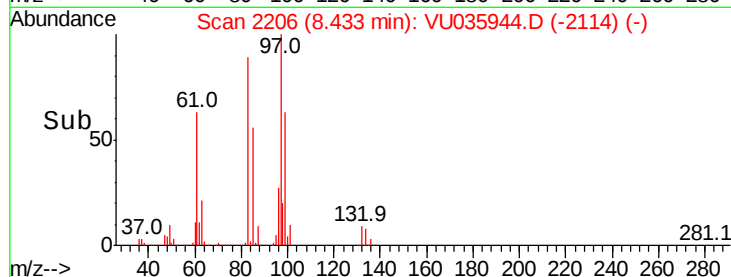
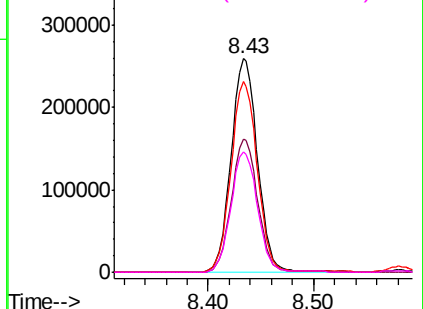
#45
 1,1,2-Trichloroethane
 Concen: 18.340 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion:	97	Resp:	447803
Ion	Ratio	Lower	Upper
97	100		
99	62.5	45.0	83.6
83	89.1	62.1	115.3
85	56.4	41.4	77.0

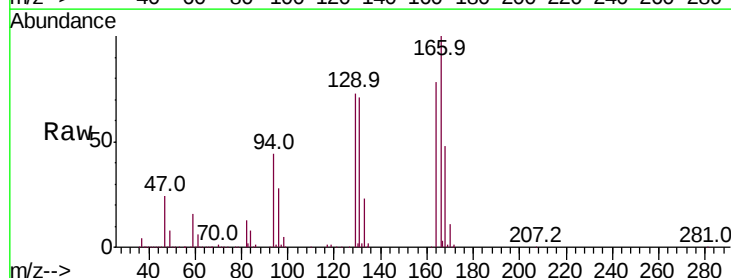


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

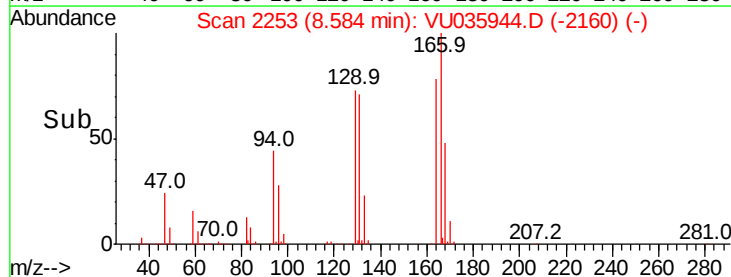
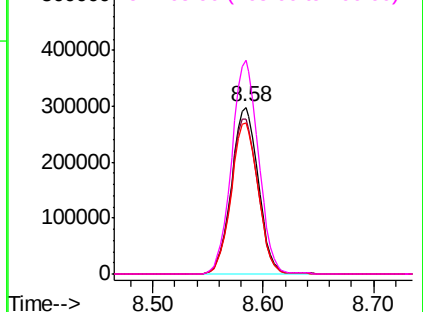


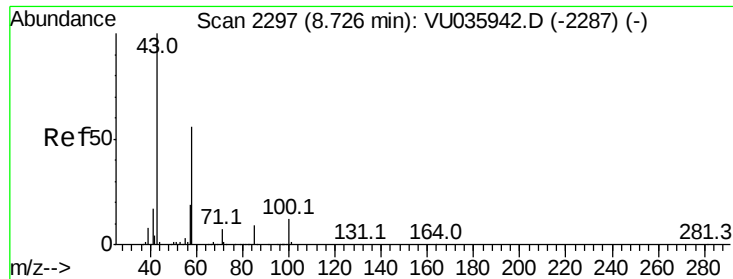
#47
 Tetrachloroethene
 Concen: 17.696 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Tgt Ion:	164	Resp:	502538
Ion	Ratio	Lower	Upper
164	100		
129	93.1	67.9	126.1
131	90.6	64.1	119.1
166	127.9	92.6	172.0



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



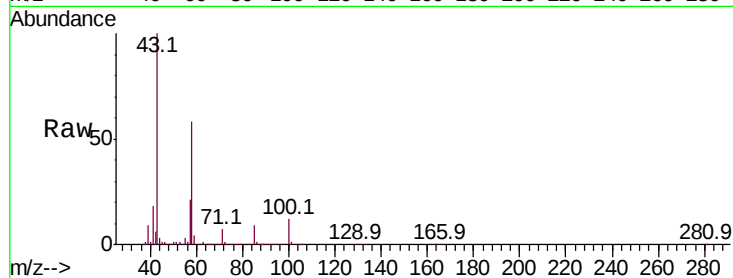


#48
2-Hexanone
Concen: 217.303 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

Tot Ion: 43 Resp: 3091203

Ion	Ratio	Lower	Upper
43	100		
58	58.2	45.4	68.2
57	19.9	14.9	22.3
100	11.7	8.6	13.0

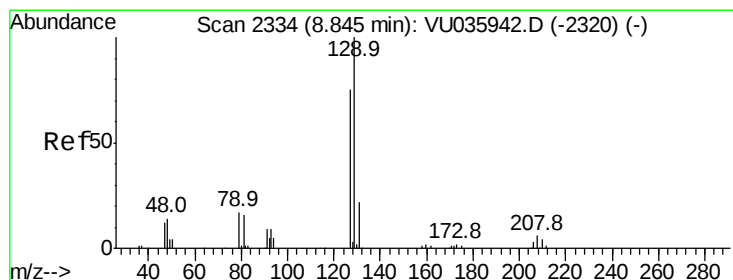
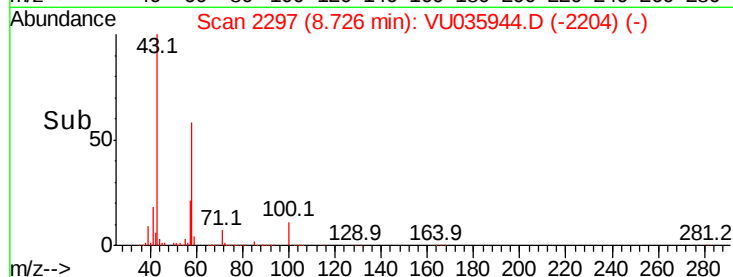
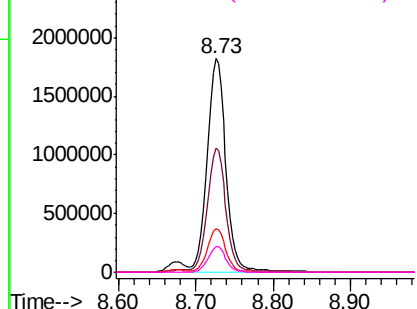


Abundance Ion 43.05 (42.75 to 43.75): VU035944.D (-2297) (-)

Ion 58.05 (57.75 to 58.75): VU035944.D (-2297) (-)

Ion 57.20 (56.90 to 57.90): VU035944.D (-2297) (-)

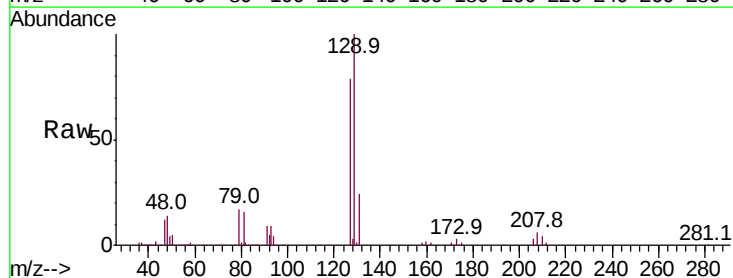
Ion 100.15 (99.85 to 100.85): VU035944.D (-2297) (-)



#49
Dibromochloromethane
Concen: 18.283 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

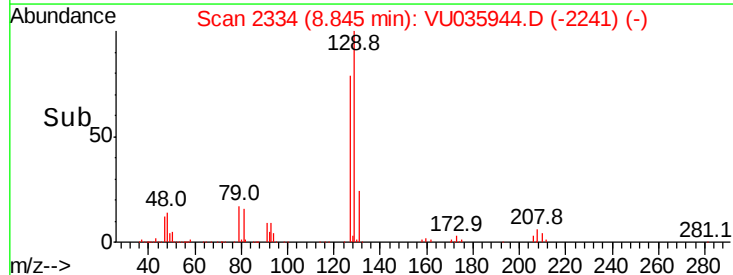
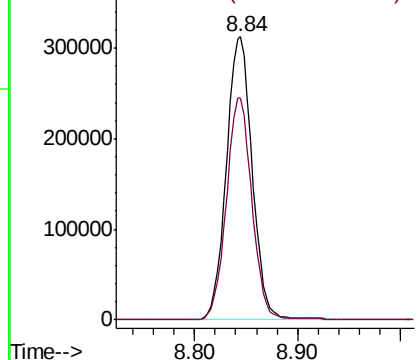
Tgt Ion: 129 Resp: 545601

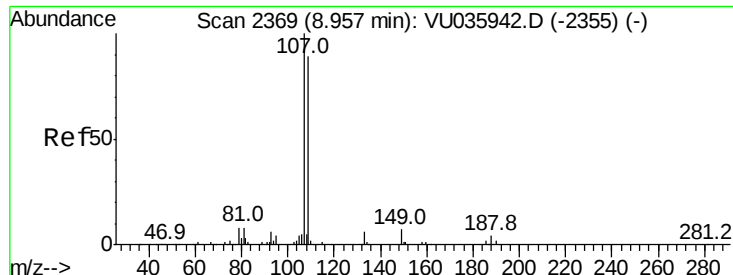
Ion	Ratio	Lower	Upper
129	100		
127	78.5	52.8	98.0



Abundance Ion 128.95 (128.65 to 129.65): VU035944.D (-2334) (-)

Ion 126.90 (126.60 to 127.60): VU035944.D (-2334) (-)

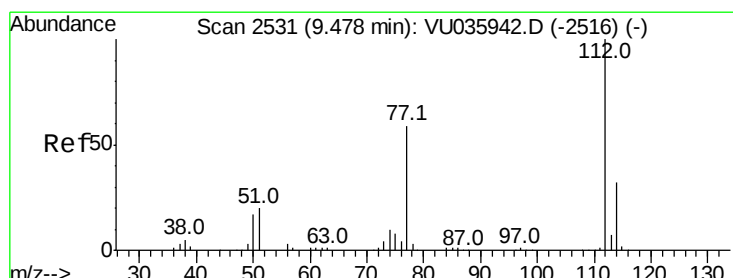
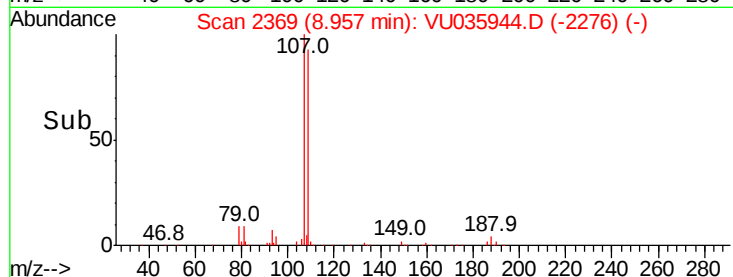
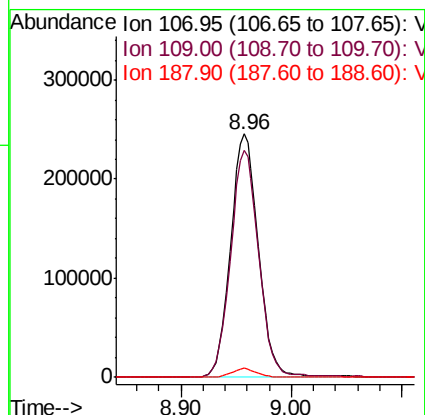
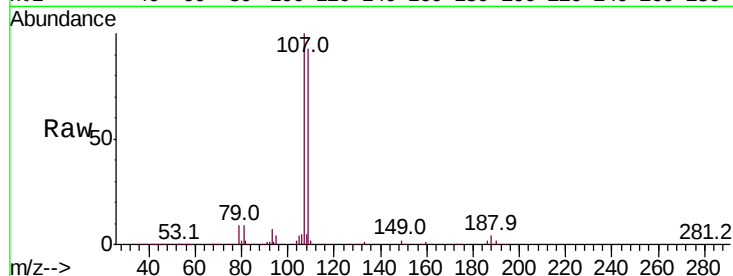




#50
1,2-Dibromoethane
Concen: 18.488 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

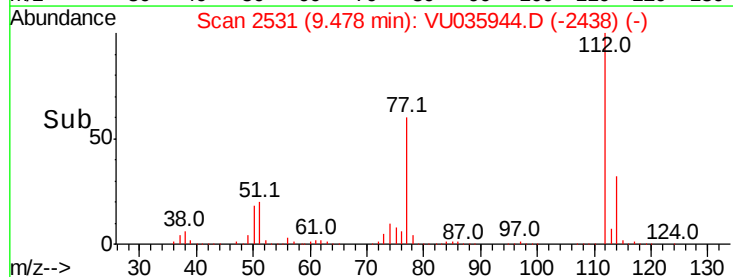
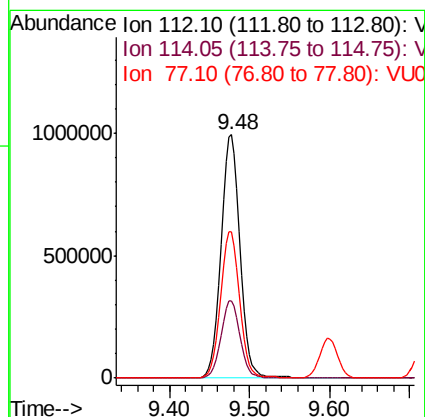
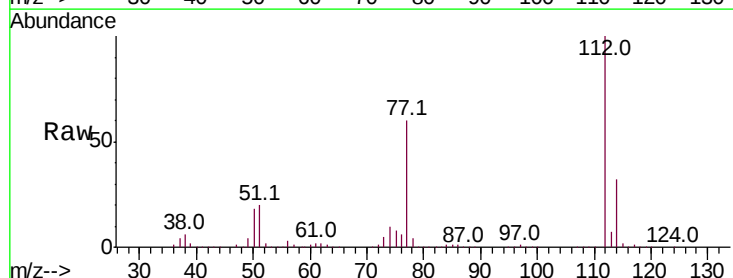
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

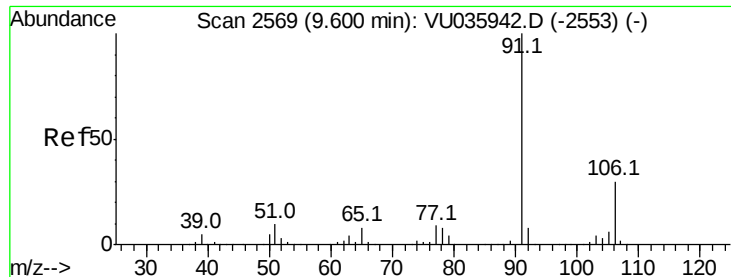
Tot Ion:107 Resp: 429284
Ion Ratio Lower Upper
107 100
109 93.3 62.5 116.1
188 3.7 3.0 4.6



#51
Chlorobenzene
Concen: 18.574 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Tgt Ion:112 Resp: 1639276
Ion Ratio Lower Upper
112 100
114 31.8 22.5 41.7
77 60.0 47.7 71.5

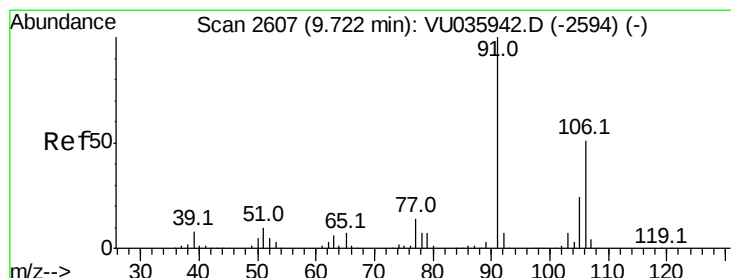
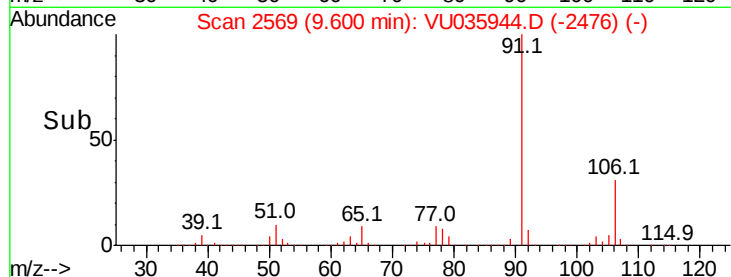
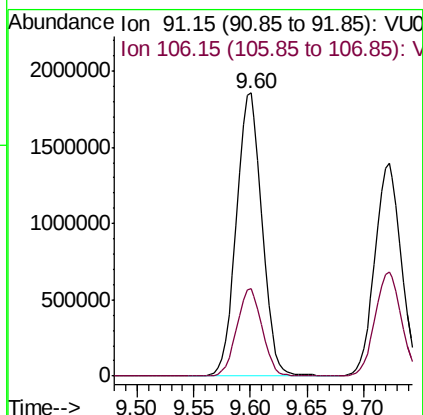
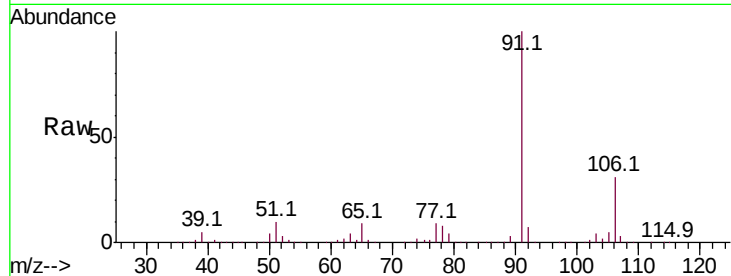




#52
Ethylbenzene
Concen: 20.700 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

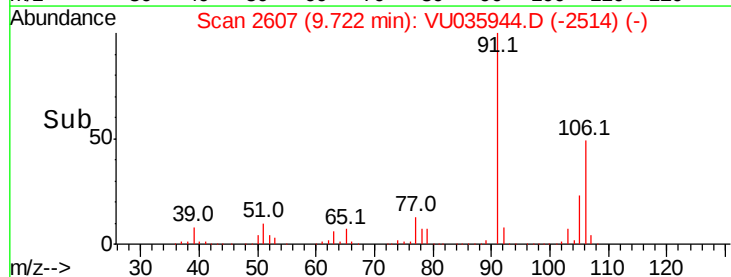
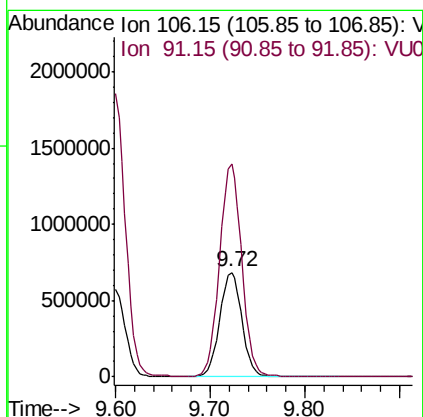
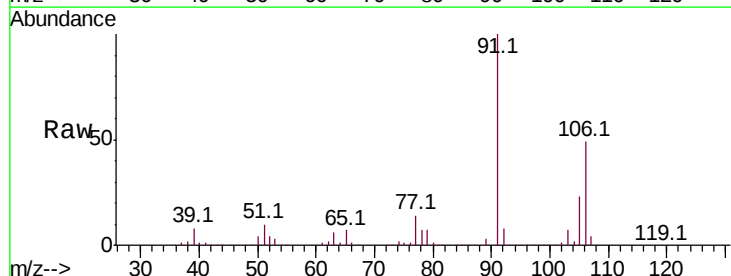
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

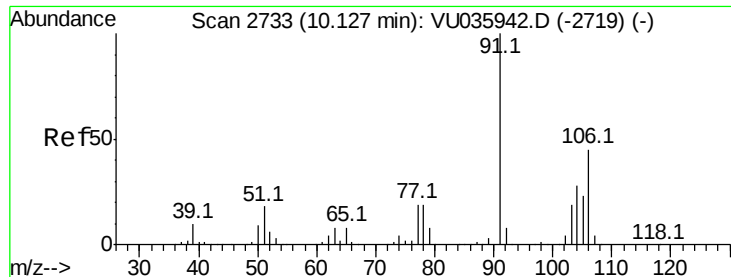
Tot Ion: 91 Resp: 2940885
Ion Ratio Lower Upper
91 100
106 30.8 21.1 39.3



#53
m,p-Xylene
Concen: 20.766 ug/L
RT: 9.72 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Tgt Ion: 106 Resp: 1118297
Ion Ratio Lower Upper
106 100
91 203.2 138.9 257.9

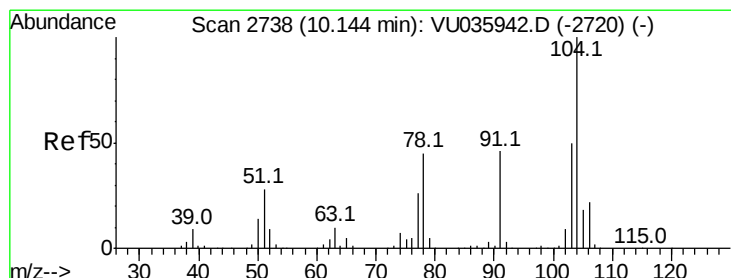
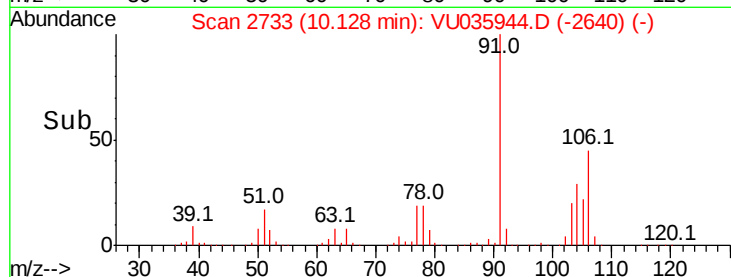
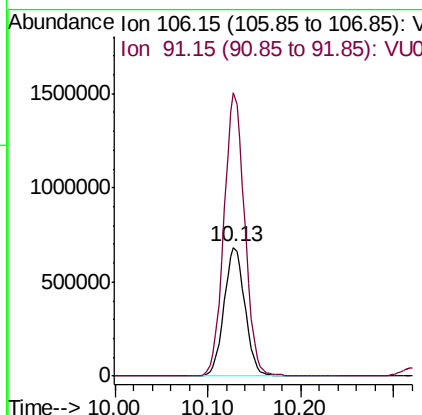
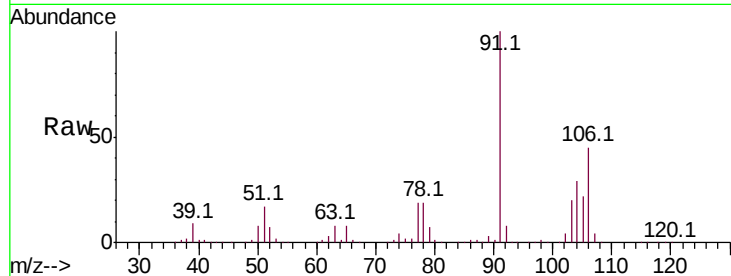




#54
o-Xylene
Concen: 20.749 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

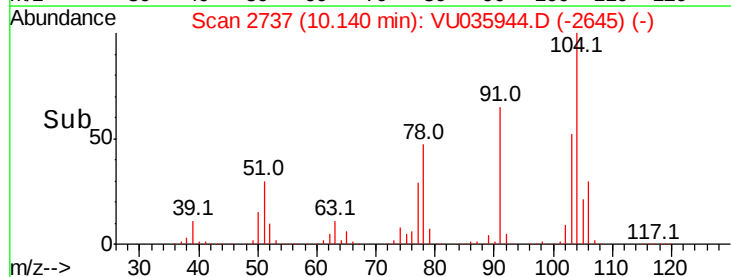
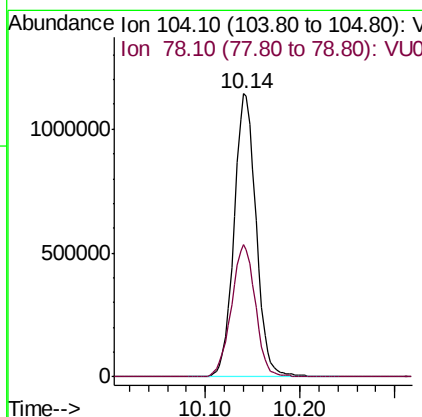
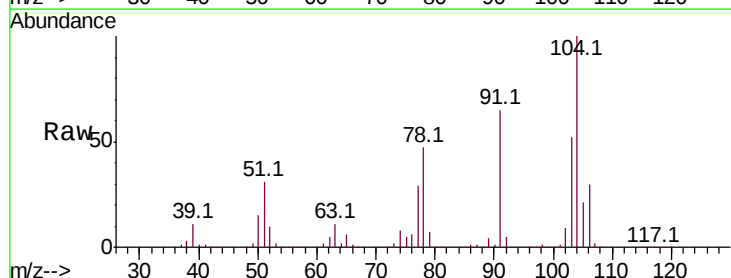
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

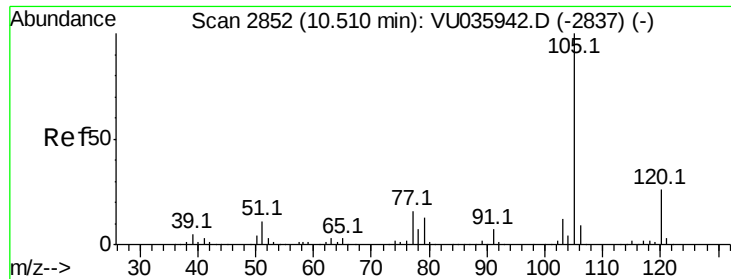
Tot Ion:106 Resp: 1070955
Ion Ratio Lower Upper
106 100
91 220.0 155.3 288.3



#55
Styrene
Concen: 21.591 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Tgt Ion:104 Resp: 1850067
Ion Ratio Lower Upper
104 100
78 46.6 31.2 58.0





#56

Isopropylbenzene

Concen: 20.946 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleID :

VSTD02002

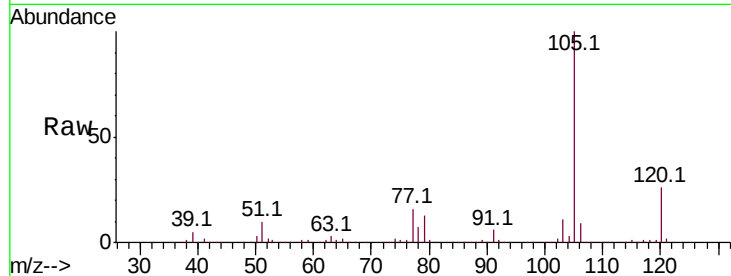
Tot Ion:105 Resp: 2844100

Ion Ratio Lower Upper

105 100

120 25.8 21.3 31.9

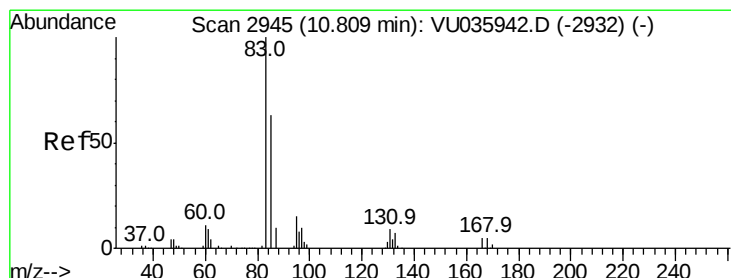
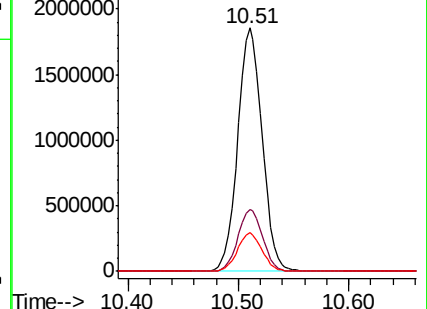
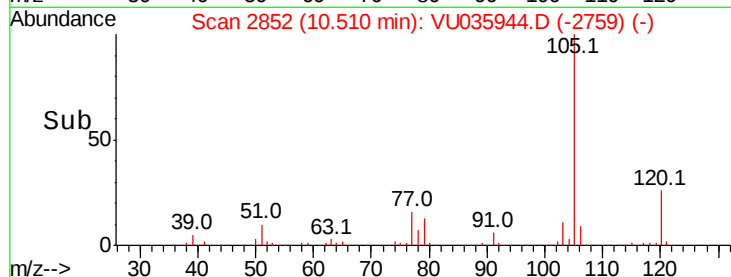
77 15.9 13.1 19.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 18.554 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

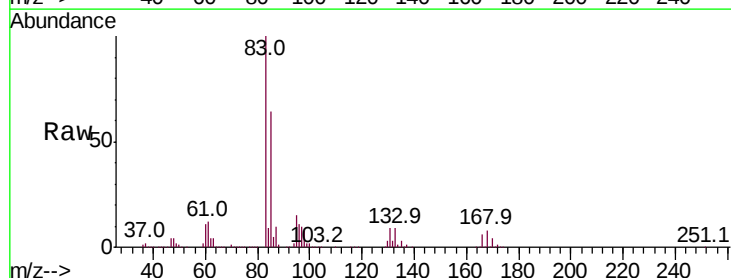
Tgt Ion: 83 Resp: 594280

Ion Ratio Lower Upper

83 100

85 63.9 44.3 82.3

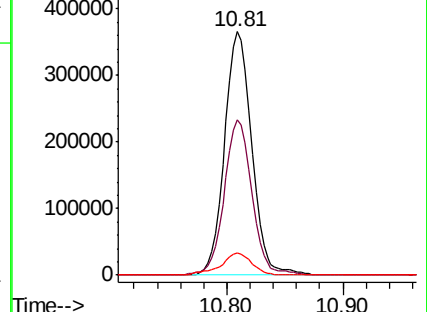
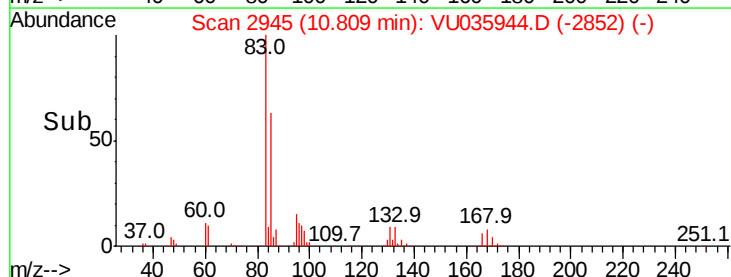
131 9.1 7.2 10.8

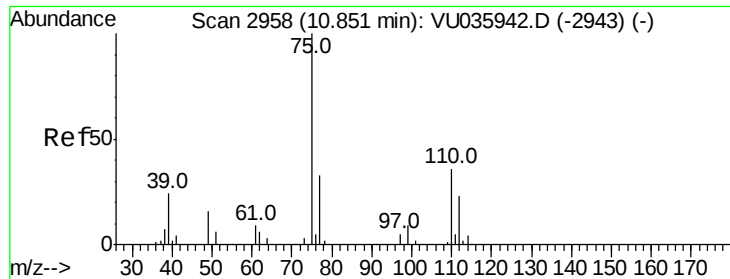


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 18.809 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

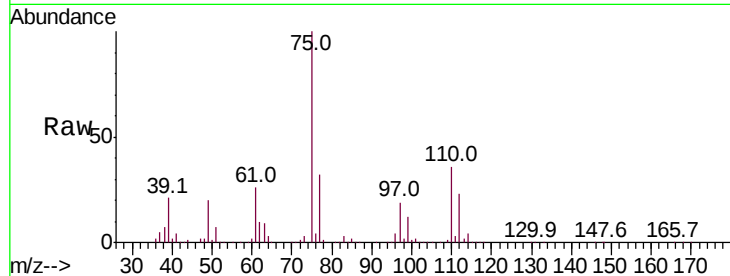
VSTD02002

Tot Ion: 75 Resp: 424518

Ion Ratio Lower Upper

75 100

77 31.8 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU035942.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU035942.D (-2943) (-)

10.85

250000

200000

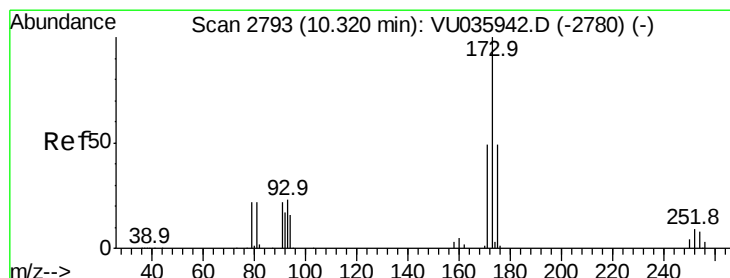
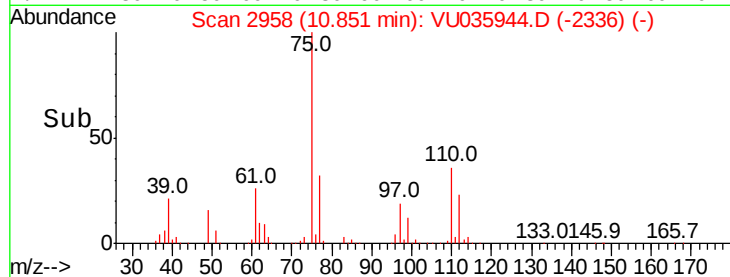
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 17.738 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

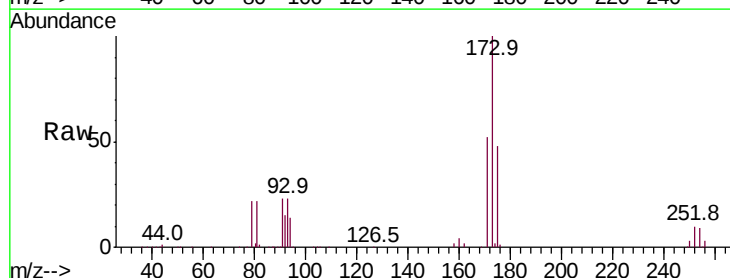
Tgt Ion:173 Resp: 322466

Ion Ratio Lower Upper

173 100

175 48.2 39.3 58.9

254 9.2 7.3 10.9



Abundance Ion 172.90 (172.60 to 173.60): VU035942.D (-2780) (-)

Ion 174.90 (174.60 to 175.60): VU035942.D (-2780) (-)

Ion 253.75 (253.45 to 254.45): VU035942.D (-2780) (-)

10.32

250000

200000

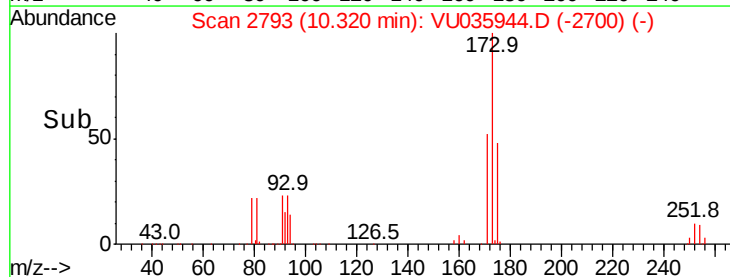
150000

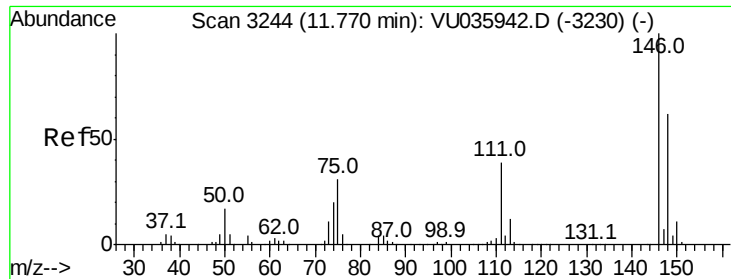
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 19.558 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

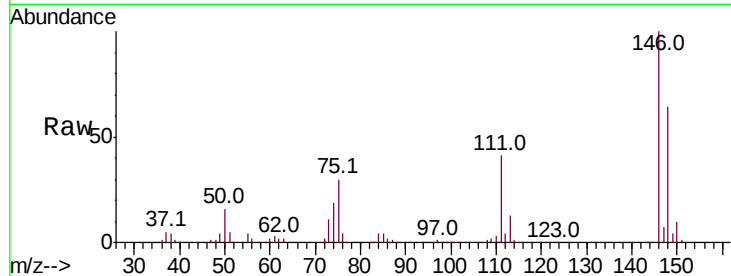
Tot Ion:146 Resp: 1321610

Ion Ratio Lower Upper

146 100

111 40.6 27.6 51.4

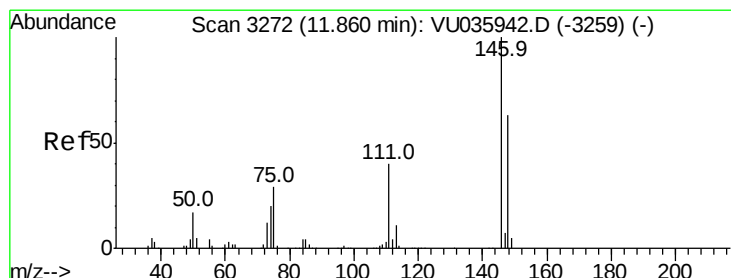
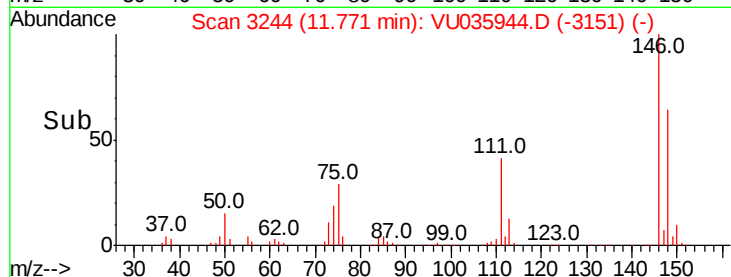
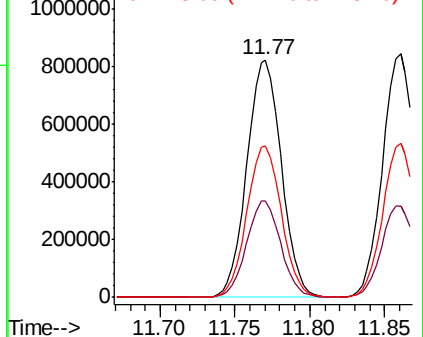
148 63.8 43.4 80.6



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



#63

1,4-Dichlorobenzene

Concen: 20.232 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU035944.D

Acq: 03 Dec 2019 12:32

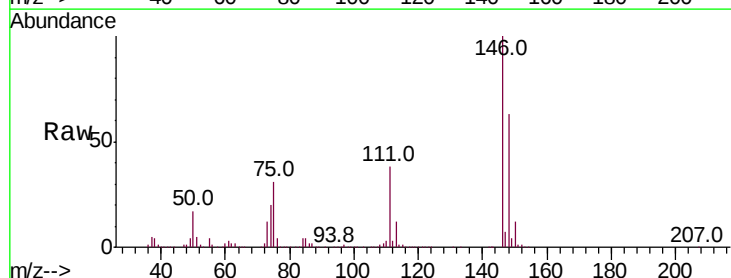
Tgt Ion:146 Resp: 1316738

Ion Ratio Lower Upper

146 100

111 37.7 28.5 52.9

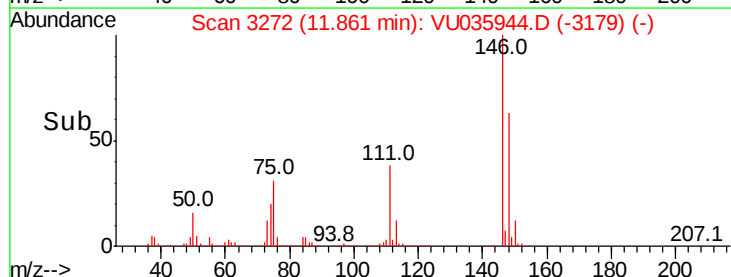
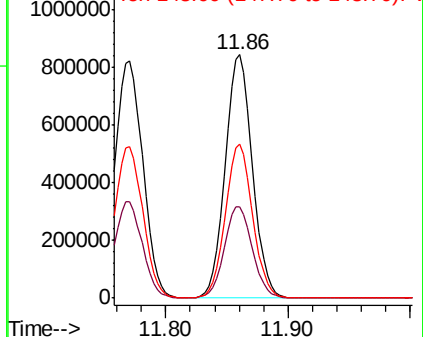
148 63.5 44.4 82.5

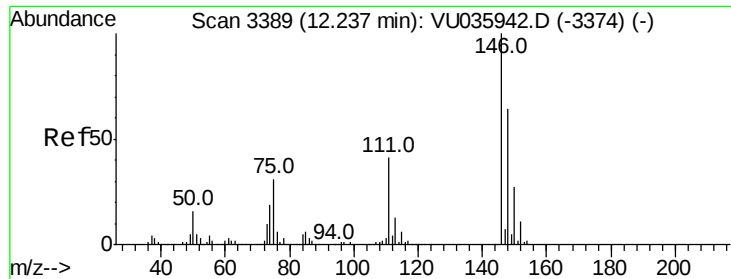


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

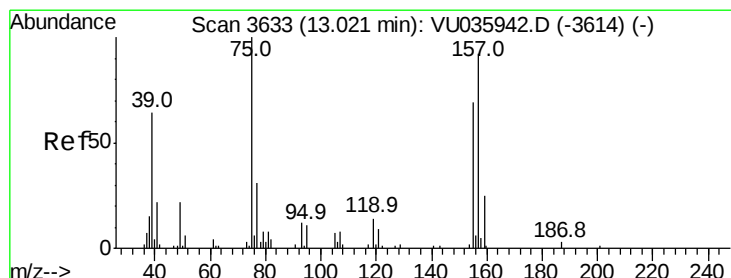
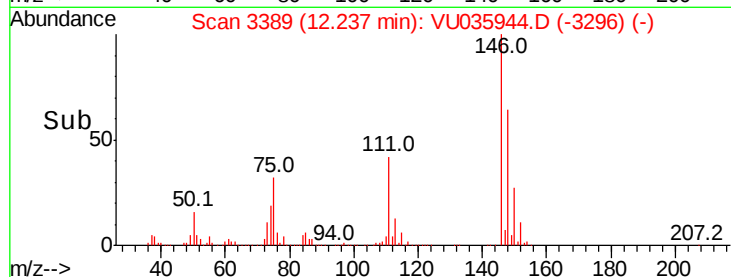
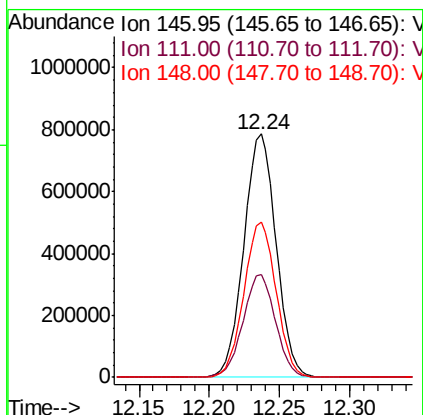
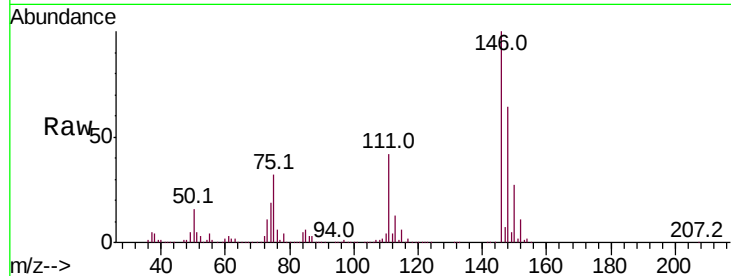




#65
 1,2-Dichlorobenzene
 Concen: 19.858 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

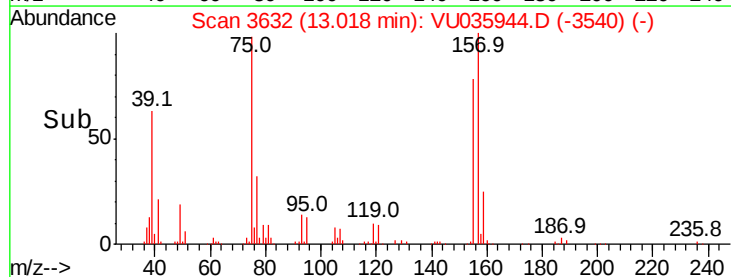
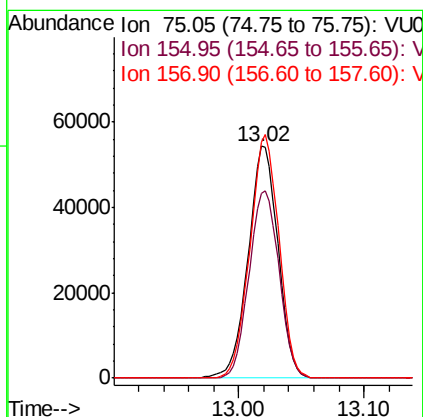
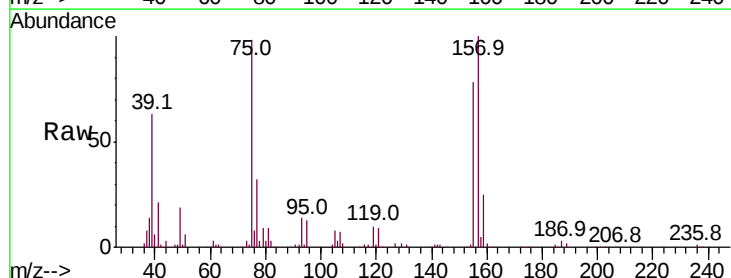
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

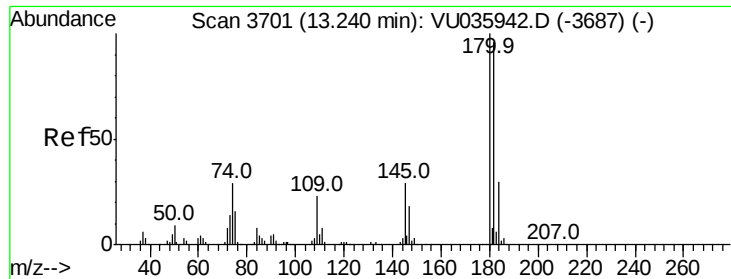
Tot Ion:146 Resp: 1260253
 Ion Ratio Lower Upper
 146 100
 111 42.1 32.6 48.8
 148 63.6 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.663 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Tgt Ion: 75 Resp: 90160
 Ion Ratio Lower Upper
 75 100
 155 79.7 55.1 82.7
 157 101.6 74.0 111.0

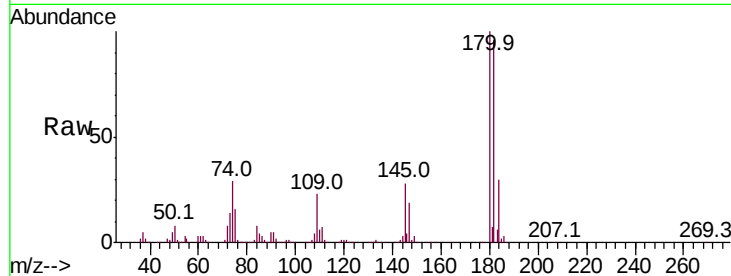




#67
 1,3,5-Trichlorobenzene
 Concen: 22.933 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion:	180	Resp:	997492
Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.2	115.8
184	30.3	24.5	36.7
145	28.4	23.0	34.6



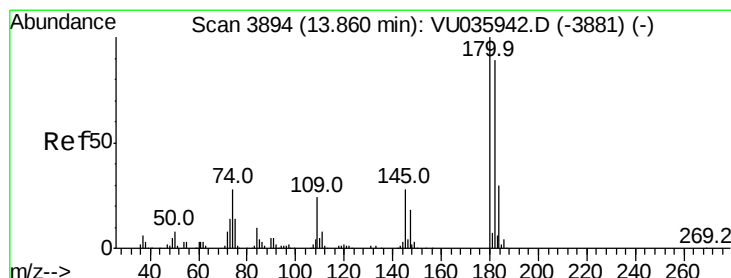
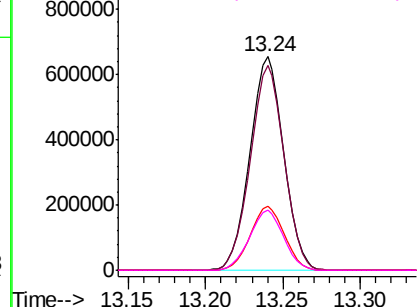
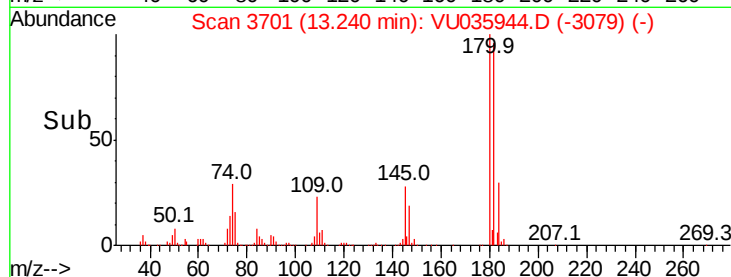
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

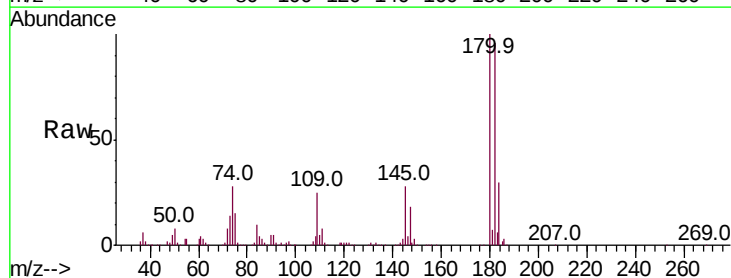
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 27.601 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU035944.D
 Acq: 03 Dec 2019 12:32

Tgt Ion:	180	Resp:	720740
Ion	Ratio	Lower	Upper
180	100		
182	95.9	74.5	111.7
145	28.9	23.4	35.0

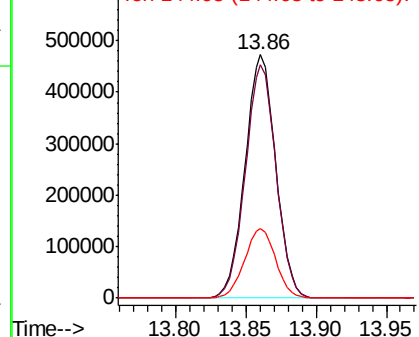
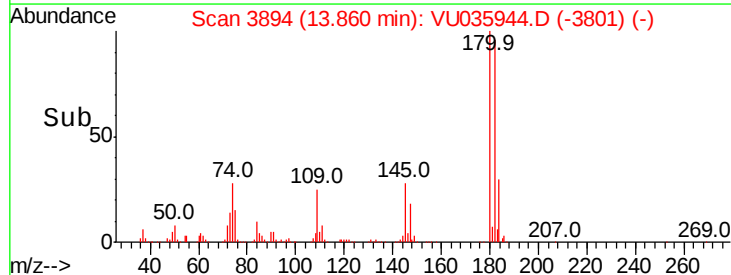


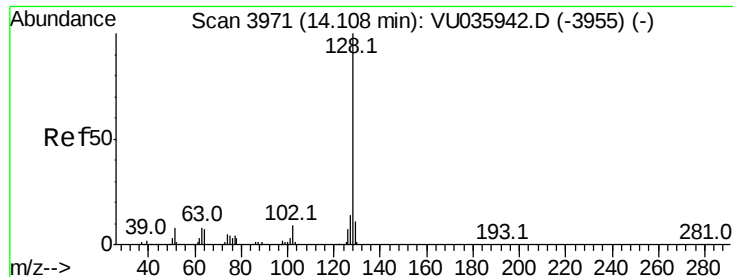
Abundance

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

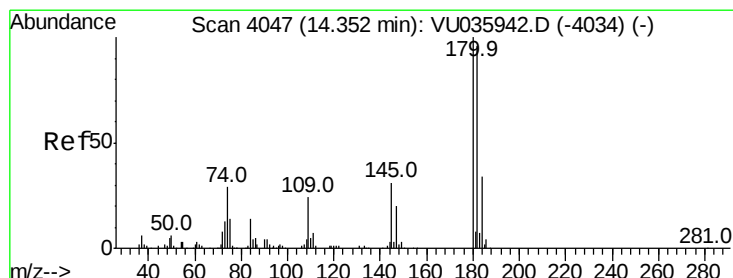
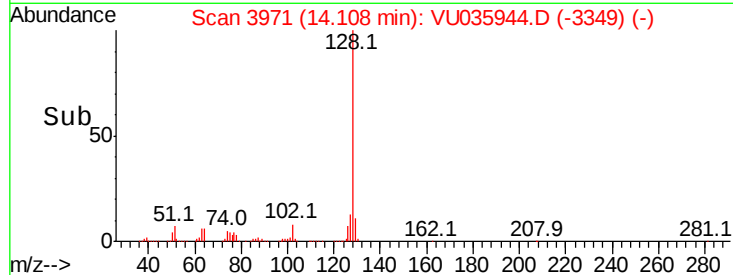
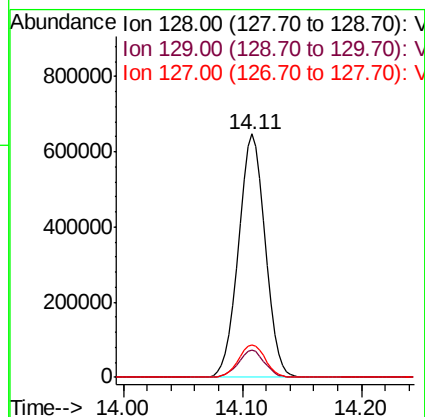
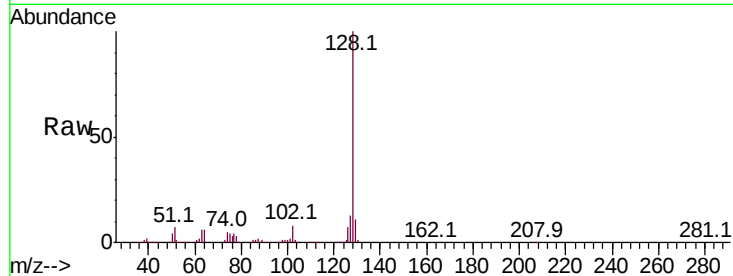




#69
Naphthalene
Concen: 32.008 ug/L
RT: 14.11 min Scan# 3971
Delta R.T. 0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

Tot Ion:128 Resp: 1005151
Ion Ratio Lower Upper
128 100
129 11.0 8.4 12.6
127 13.5 10.6 15.8



#70
1,2,3-Trichlorobenzene
Concen: 26.670 ug/L
RT: 14.35 min Scan# 4046
Delta R.T. -0.00 min
Lab File: VU035944.D
Acq: 03 Dec 2019 12:32

Tgt Ion:180 Resp: 671703
Ion Ratio Lower Upper
180 100
182 94.7 74.6 112.0
145 31.0 24.3 36.5

