

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035942.D
 Acq On : 03 Dec 2019 11:43
 Operator : JC/SP
 Sample : VSTD00506
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

Quant Time: Dec 03 18:02:52 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	349756	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	358100	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	169445	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	190871	5.23	ug/L	0.00
7) Chloroethane-d5	1.93	69	153165	5.16	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	279186	4.68	ug/L	0.00
20) 2-Butanone-d5	4.70	46	354388	45.62	ug/L	0.00
24) Chloroform-d	5.11	84	264195	4.69	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	135788	4.58	ug/L	0.00
32) Benzene-d6	5.77	84	525046	4.74	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	163652	4.58	ug/L	0.00
41) Toluene-d8	7.93	98	493658	4.71	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	66686	4.65	ug/L	0.00
46) 2-Hexanone-d5	8.68	63	280058	49.72	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	136987	4.58	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	162933	4.84	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	185171	4.958	ug/L 100
3) Chloromethane	1.54	50	202771	4.741	ug/L 100
5) Vinyl chloride	1.62	62	212570	4.847	ug/L 100
6) Bromomethane	1.87	94	117595	4.703	ug/L 100
8) Chloroethane	1.95	64	126036	4.989	ug/L 100
9) Trichlorofluoromethane	2.16	101	252131	4.744	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	138852	4.469	ug/L 100
12) 1,1-Dichloroethene	2.61	96	128385	4.314	ug/L 100
13) Acetone	2.68	43	289630	50.328	ug/L 100
14) Carbon disulfide	2.82	76	437081	4.512	ug/L 100
15) Methyl Acetate	3.00	43	58580	4.495	ug/L 100
16) Methylene chloride	3.08	84	157665	4.418	ug/L 100
17) Methyl tert-butyl Ether	3.42	73	295006	4.265	ug/L 100
18) trans-1,2-Dichloroethene	3.39	96	134957	4.413	ug/L 100
19) 1,1-Dichloroethane	3.92	63	261461	4.567	ug/L 100
21) 2-Butanone	4.78	43	412080	49.108	ug/L 100
22) cis-1,2-Dichloroethene	4.72	96	140193	4.190	ug/L 100
23) Bromochloromethane	5.02	128	66755	4.201	ug/L 100
25) Chloroform	5.14	83	266219	4.278	ug/L 100
27) 1,2-Dichloroethane	5.84	62	169450	4.837	ug/L 100
29) 1,1,1-Trichloroethane	5.36	97	219609	4.763	ug/L 100
30) Cyclohexane	5.43	56	216622	4.698	ug/L 100
31) Carbon tetrachloride	5.57	117	193710	4.691	ug/L 100
33) Benzene	5.82	78	588361	4.761	ug/L 100
34) Trichloroethene	6.58	95	142115	4.533	ug/L 100
35) Methylcyclohexane	6.80	83	218637	4.578	ug/L 100
37) 1,2-Dichloropropane	6.83	63	152648	4.684	ug/L 100
38) Bromodichloromethane	7.14	83	187790	4.755	ug/L 100
39) cis-1,3-Dichloropropene	7.65	75	208186	4.514	ug/L 100
40) 4-Methyl-2-pentanone	7.84	43	922511	48.988	ug/L 100

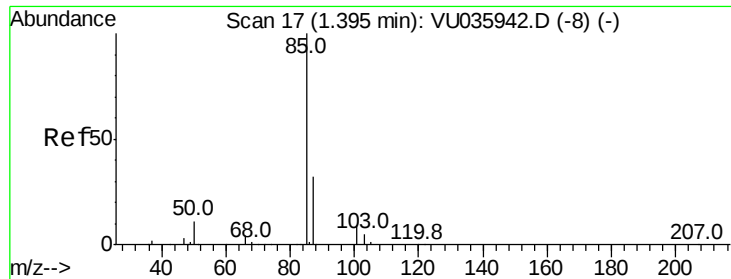
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	624222	4.821	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	175817	4.749	ug/L	100
45) 1,1,2-Trichloroethane	8.44	97	108153	4.661	ug/L	100
47) Tetrachloroethene	8.58	164	118094	4.376	ug/L	100
48) 2-Hexanone	8.73	43	715278	52.913	ug/L	100
49) Dibromochloromethane	8.84	129	127244	4.487	ug/L	100
50) 1,2-Dibromoethane	8.96	107	104299	4.727	ug/L	100
51) Chlorobenzene	9.48	112	376951	4.494	ug/L	100
52) Ethylbenzene	9.60	91	609496	4.515	ug/L	100
53) m,p-Xylene	9.72	106	239296	4.676	ug/L	100
54) o-Xylene	10.13	106	222617	4.539	ug/L	100
55) Styrene	10.14	104	386098	4.742	ug/L	100
56) Isopropylbenzene	10.51	105	575594	4.461	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	141918	4.663	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	99518	4.640	ug/L	100
61) Bromoform	10.32	173	74087	4.829	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	287781	5.046	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	279841	5.095	ug/L	100
65) 1,2-Dichlorobenzene	12.24	146	273806	5.112	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	19510	5.554	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	193148	5.262	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	102915	4.670	ug/L	100
69) Naphthalene	14.11	128	97454	3.677	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	100899	4.747	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.958 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

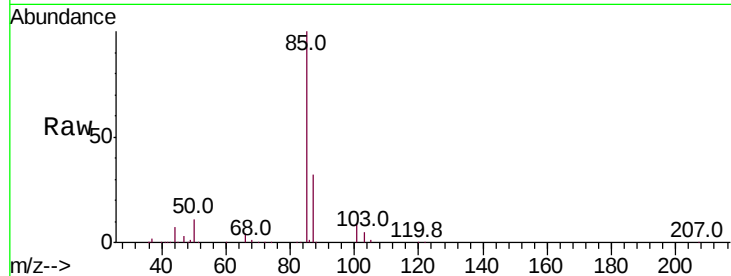
VSTD00506

Tot Ion: 85 Resp: 185171

Ion Ratio Lower Upper

85 100

87 31.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU035942.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU035942.D (-8) (-)

1.39

200000

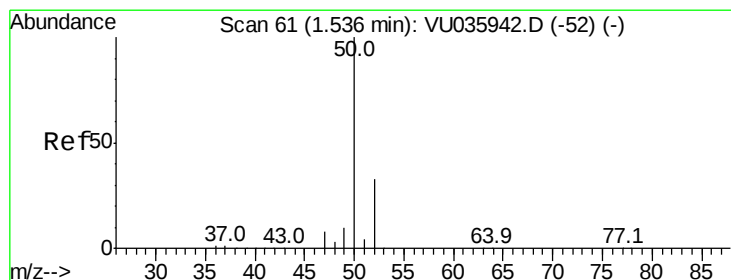
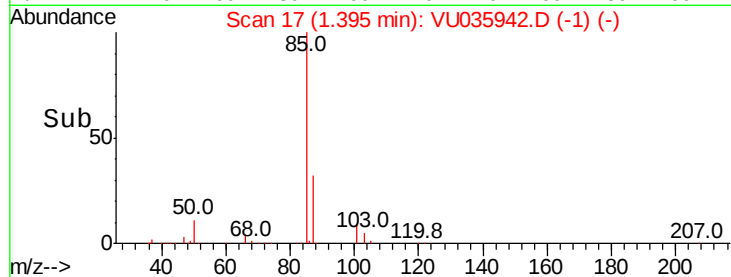
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.741 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035942.D

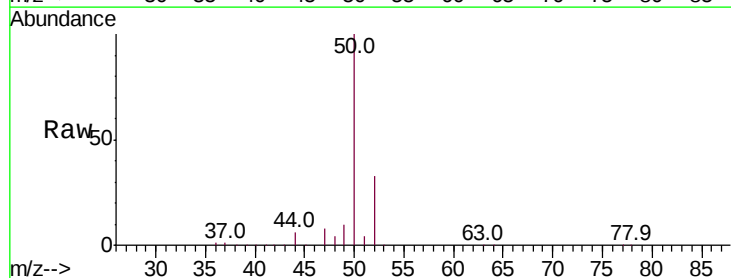
Acq: 03 Dec 2019 11:43

Tgt Ion: 50 Resp: 202771

Ion Ratio Lower Upper

50 100

52 33.0 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU035942.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU035942.D (-52) (-)

1.54

200000

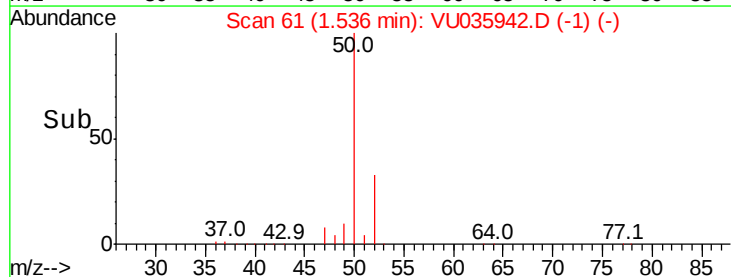
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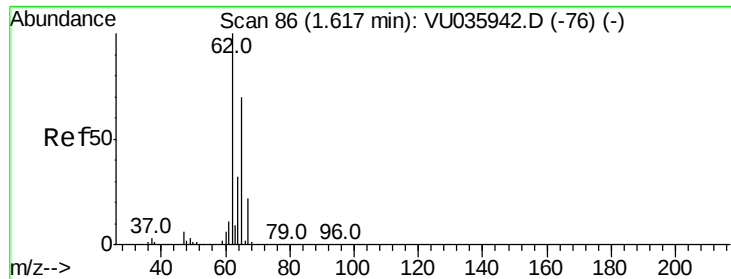
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.847 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

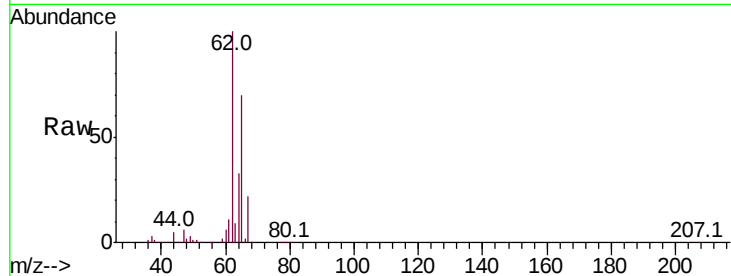
VSTD00506

Tot Ion: 62 Resp: 212570

Ion Ratio Lower Upper

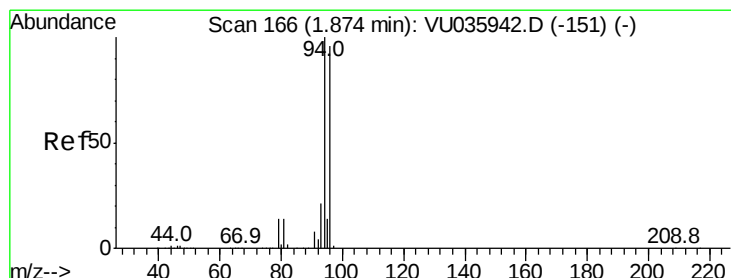
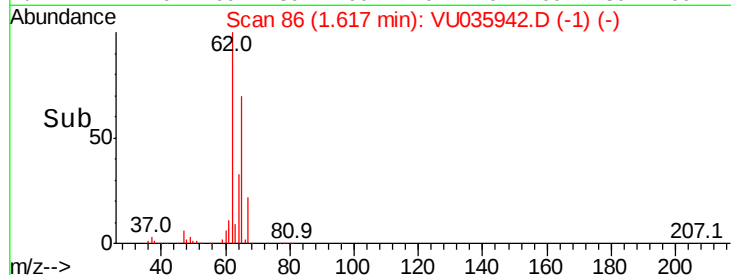
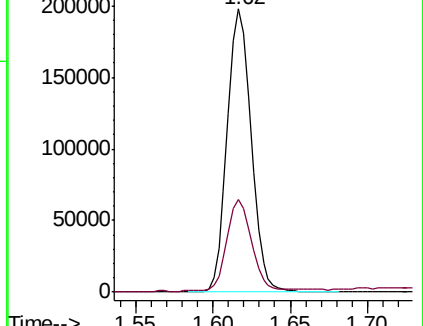
62 100

64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU035942.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU035942.D (-76) (-)



#6

Bromomethane

Concen: 4.703 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035942.D

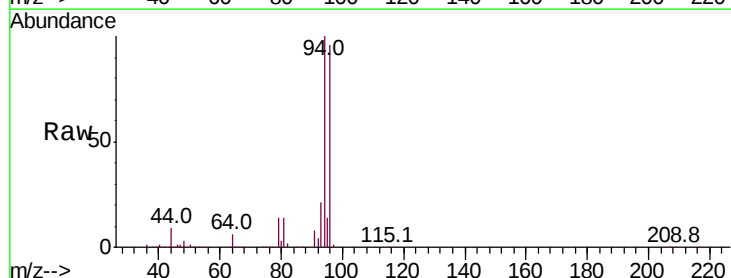
Acq: 03 Dec 2019 11:43

Tgt Ion: 94 Resp: 117595

Ion Ratio Lower Upper

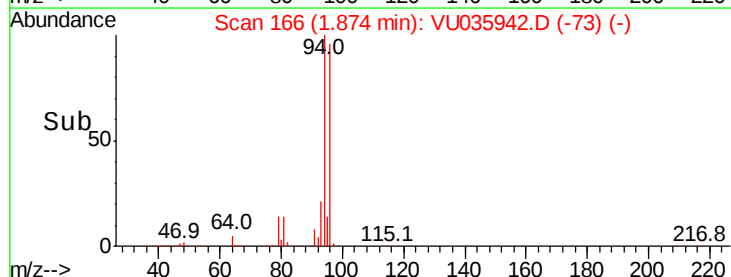
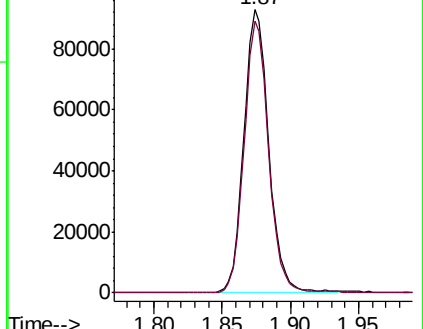
94 100

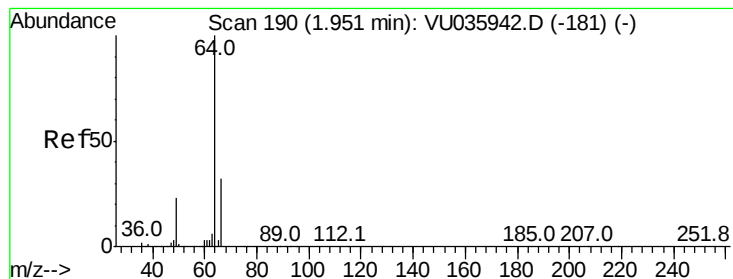
96 96.1 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU035942.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU035942.D (-151) (-)





#8

Chloroethane

Concen: 4.989 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

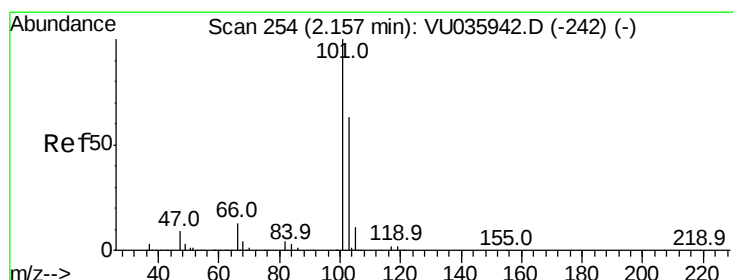
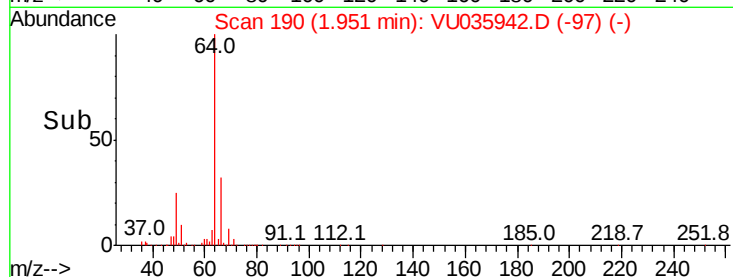
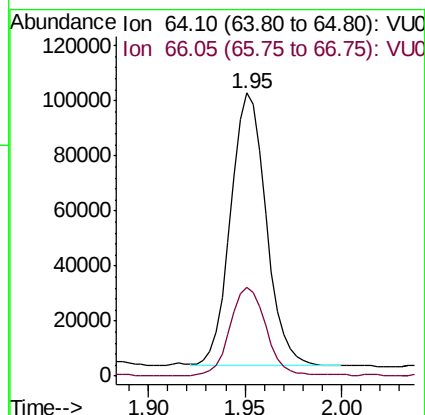
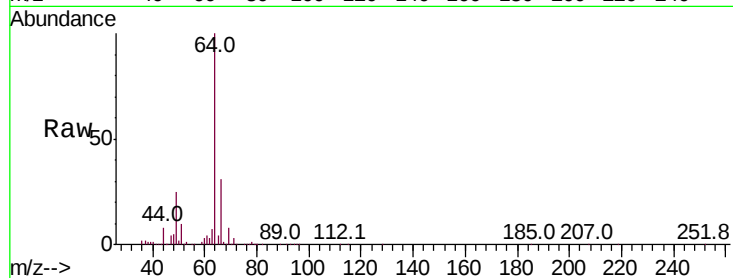
VSTD00506

Tot Ion: 64 Resp: 126036

Ion Ratio Lower Upper

64 100

66 31.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 4.744 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU035942.D

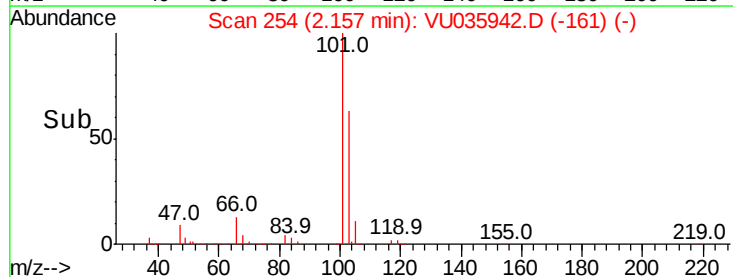
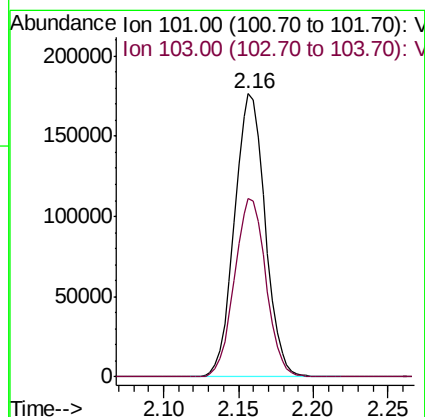
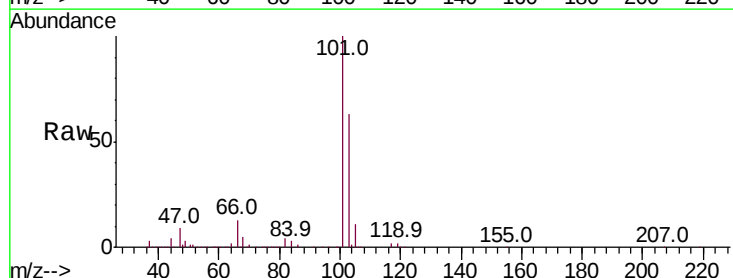
Acq: 03 Dec 2019 11:43

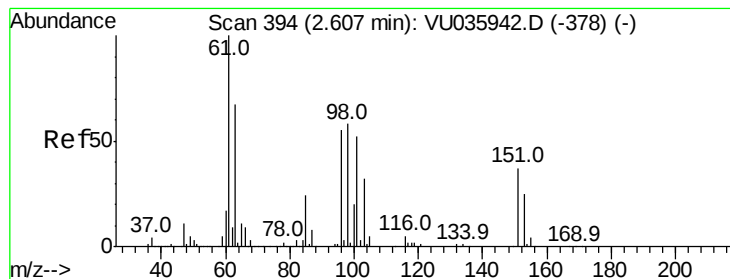
Tgt Ion: 101 Resp: 252131

Ion Ratio Lower Upper

101 100

103 64.8 51.8 77.8





#10

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

Concen: 4.469 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

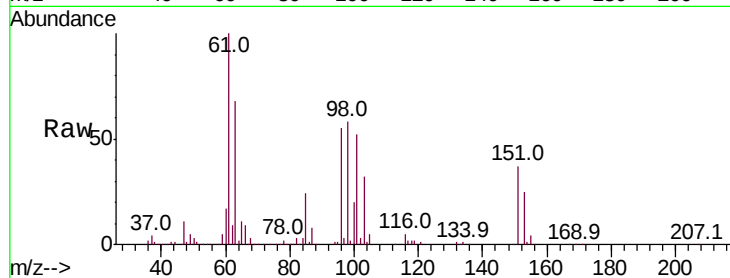
Tot Ion:101 Resp: 138852

Ion Ratio Lower Upper

101 100

85 44.4 35.5 53.3

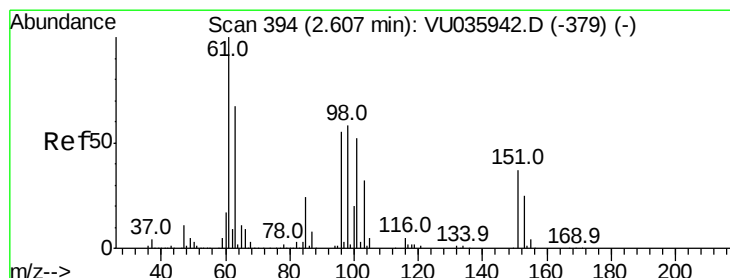
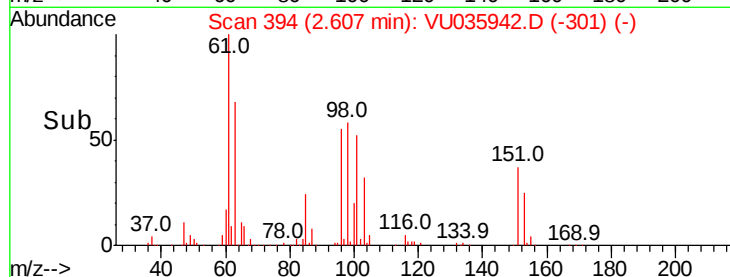
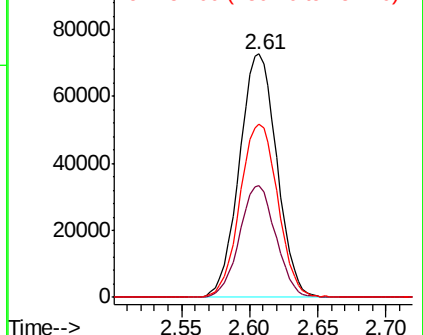
151 71.9 57.5 86.3



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: 4.314 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

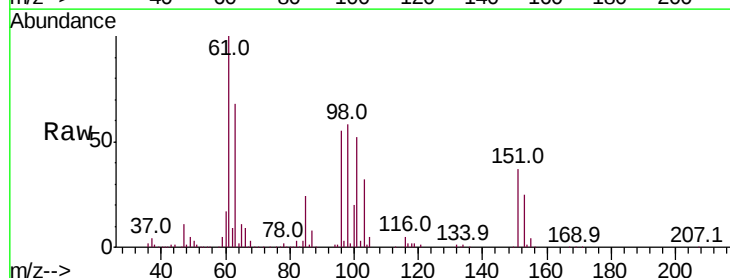
Tgt Ion: 96 Resp: 128385

Ion Ratio Lower Upper

96 100

61 181.6 127.1 236.1

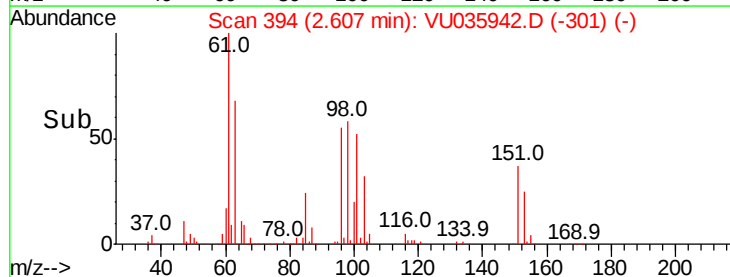
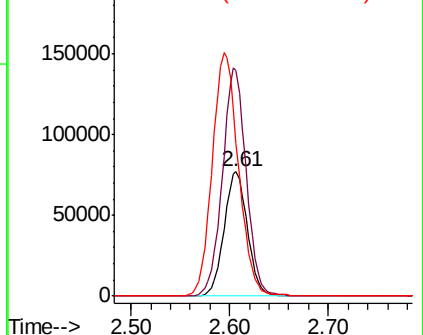
63 122.9 86.0 159.8

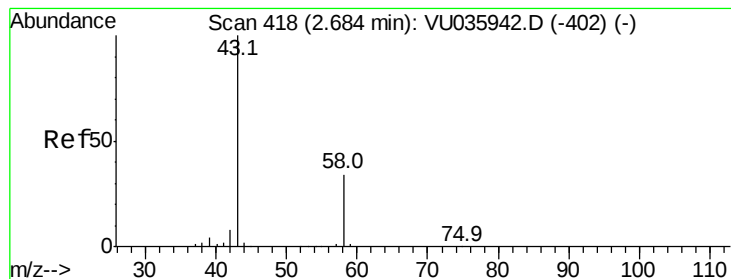


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 50.328 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

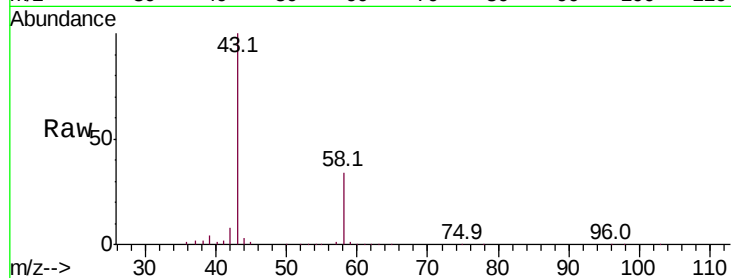
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

Tot Ion: 43 Resp: 289630

Ion Ratio Lower Upper

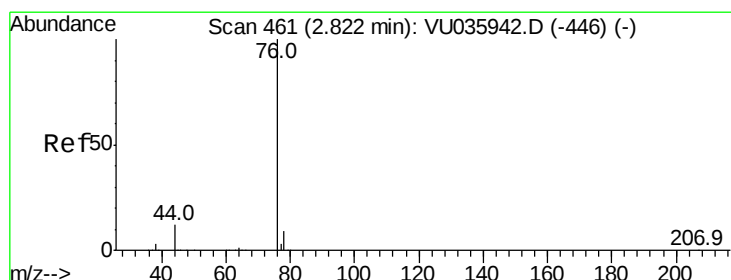
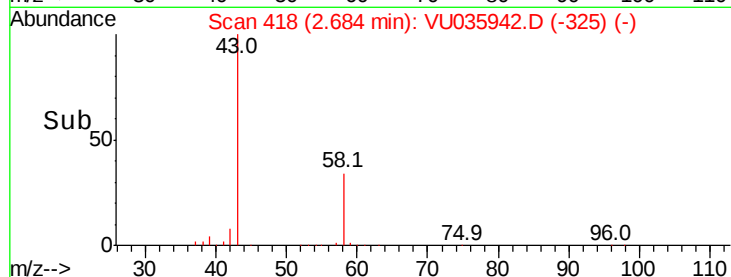
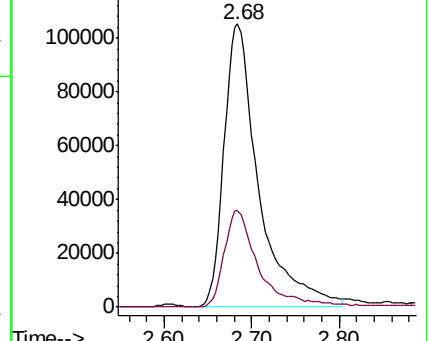
43 100

58 34.3 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035942.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU035942.D (-402) (-)



#14

Carbon disulfide

Concen: 4.512 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035942.D

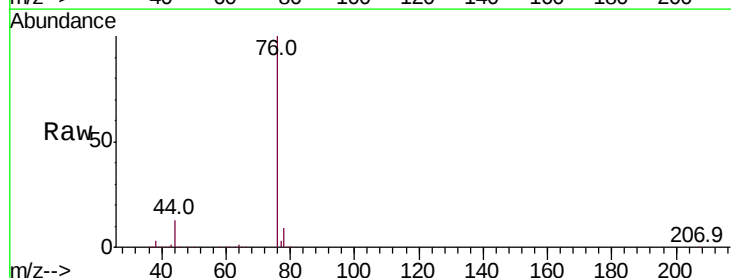
Acq: 03 Dec 2019 11:43

Tgt Ion: 76 Resp: 437081

Ion Ratio Lower Upper

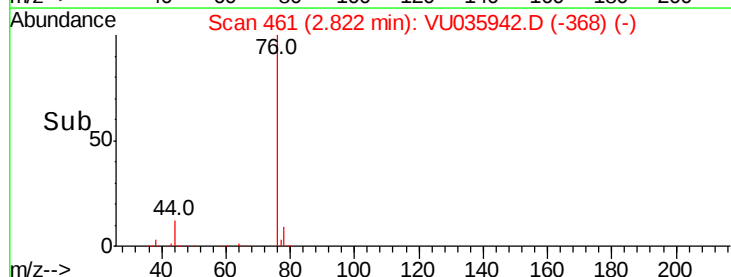
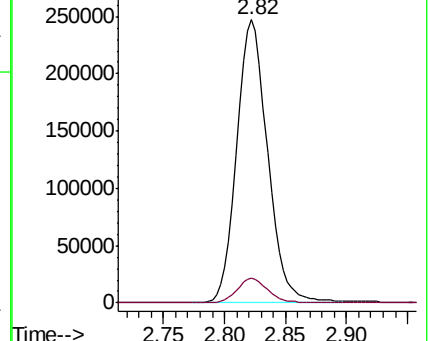
76 100

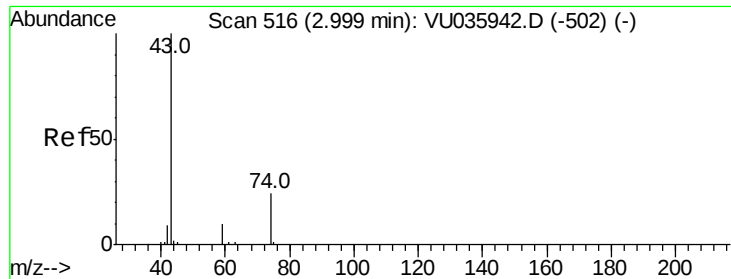
78 8.6 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU035942.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU035942.D (-446) (-)





#15

Methvl Acetate

Concen: 4.495 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

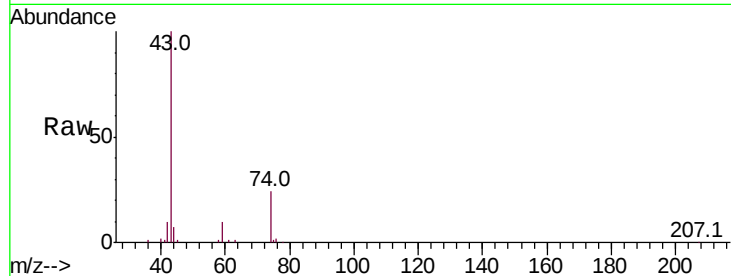
VSTD00506

Tot Ion: 43 Resp: 58580

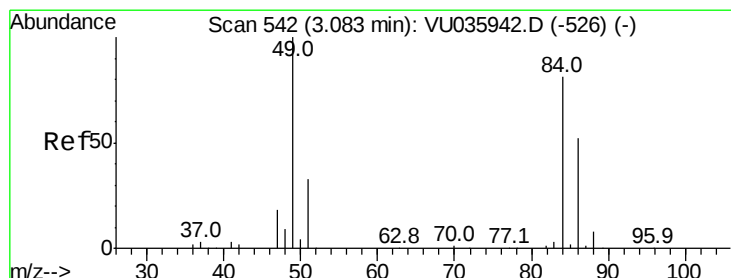
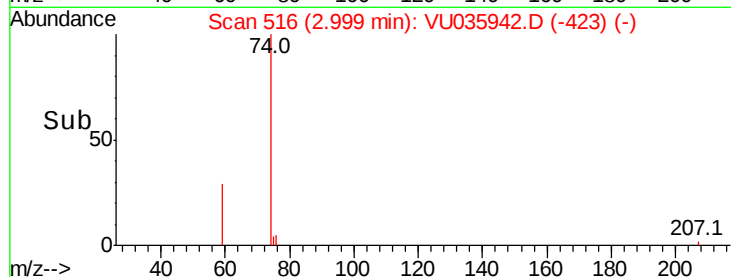
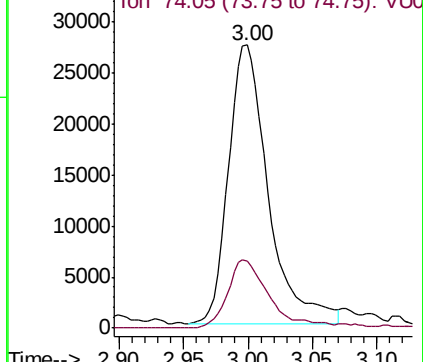
Ion Ratio Lower Upper

43 100

74 25.0 20.0 30.0



Abundance Ion 43.05 (42.75 to 43.75): VU035942.D (-502) (-)



#16

Methylene chloride

Concen: 4.418 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

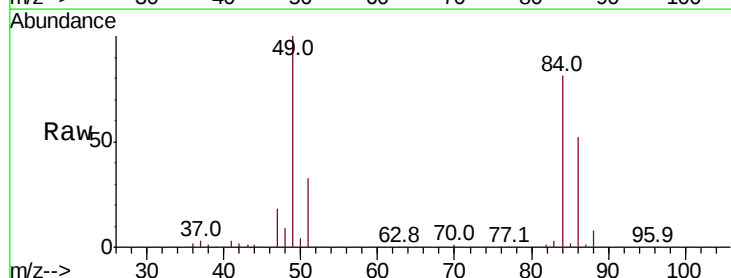
Tgt Ion: 84 Resp: 157665

Ion Ratio Lower Upper

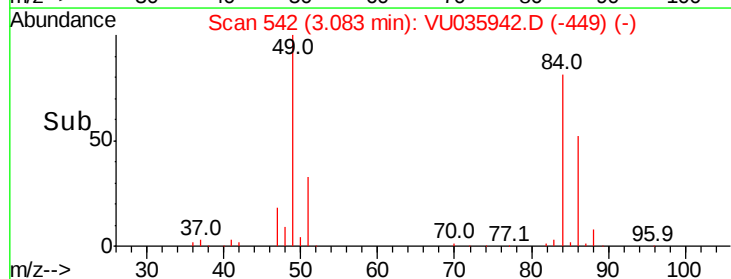
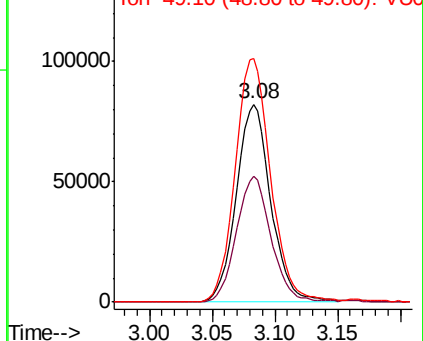
84 100

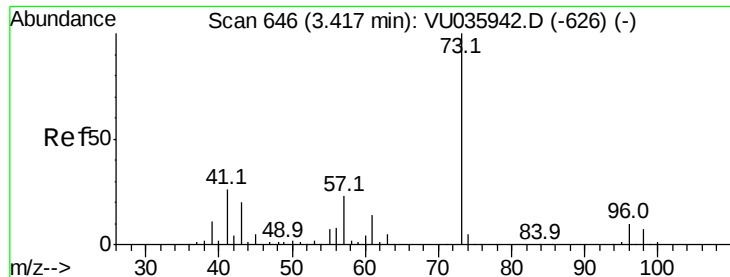
86 63.8 44.7 82.9

49 123.2 86.2 160.2



Abundance Ion 84.05 (83.75 to 84.75): VU035942.D (-526) (-)

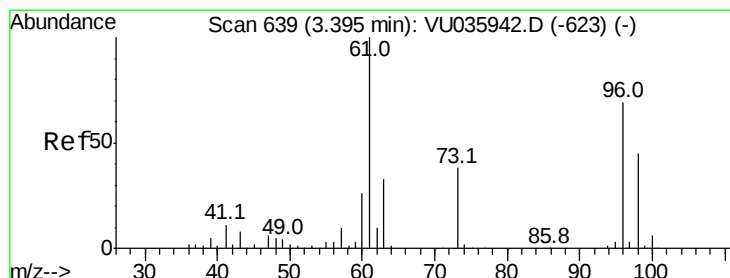
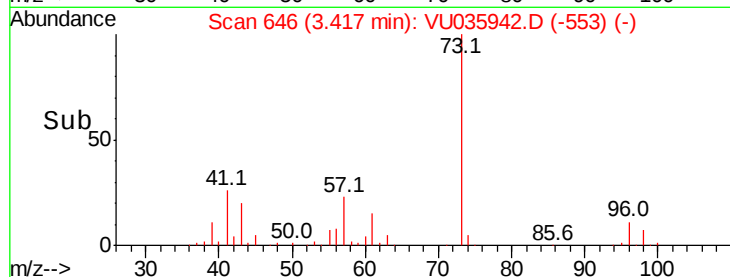
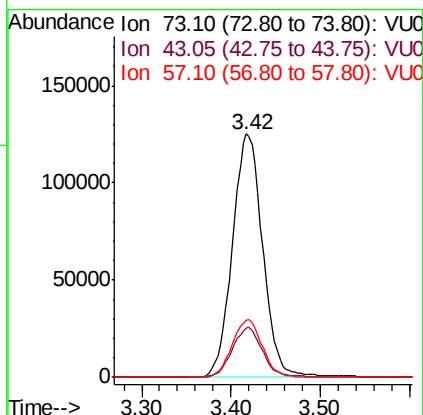
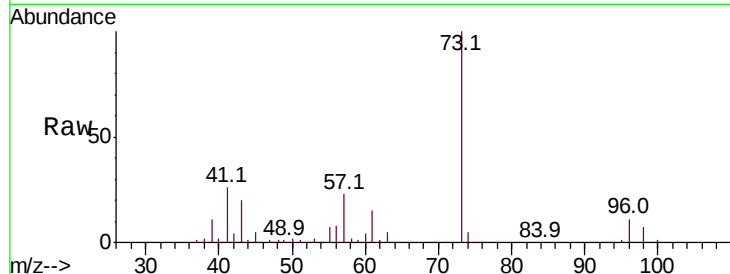




#17
Methvl tert-butvl Ether
Concen: 4.265 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

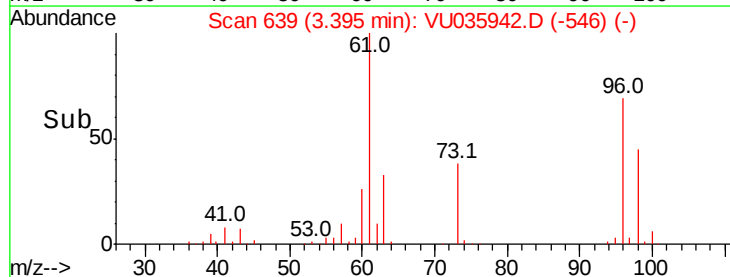
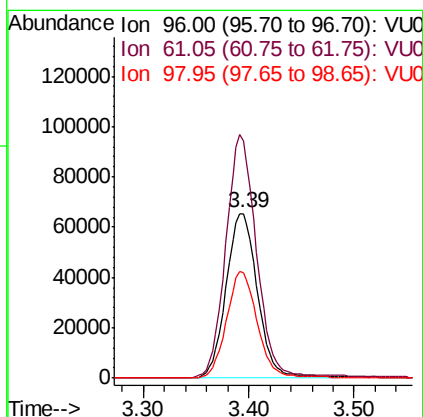
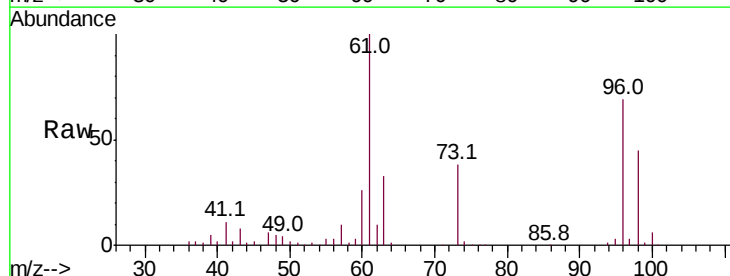
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

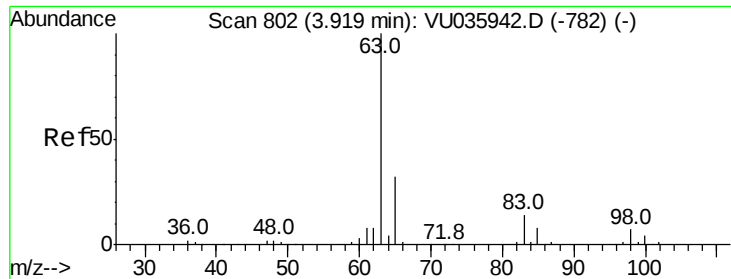
Tot Ion: 73 Resp: 295006
Ion Ratio Lower Upper
73 100
43 19.9 15.9 23.9
57 23.5 18.8 28.2



#18
trans-1,2-Dichloroethene
Concen: 4.413 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

Tgt Ion: 96 Resp: 134957
Ion Ratio Lower Upper
96 100
61 144.5 101.2 187.8
98 64.3 45.0 83.6

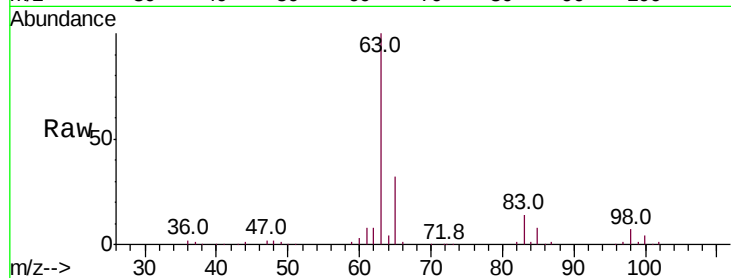




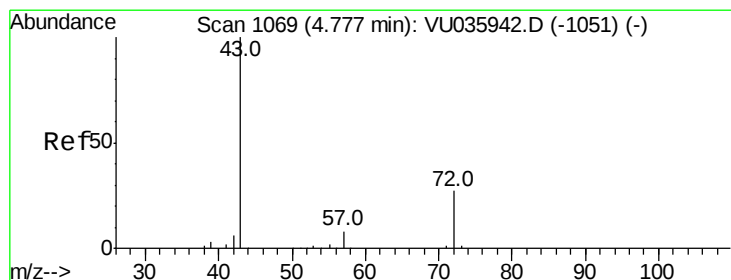
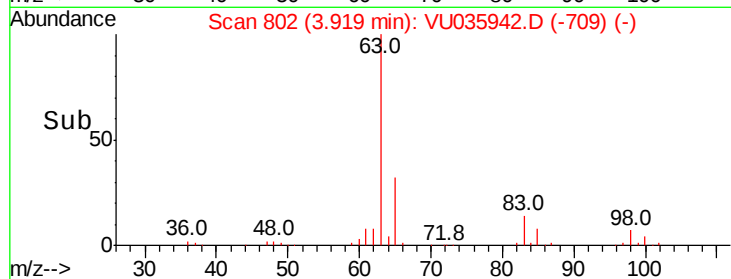
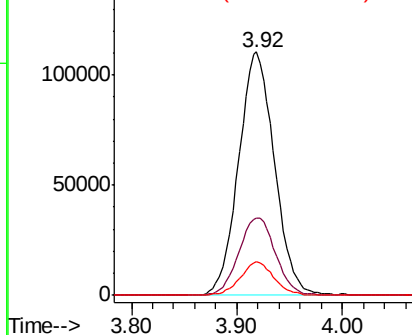
#19
 1,1-Dichloroethane
 Concen: 4.567 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00506

Tot Ion: 63 Resp: 261461
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.4 41.6
 83 14.0 9.8 18.2

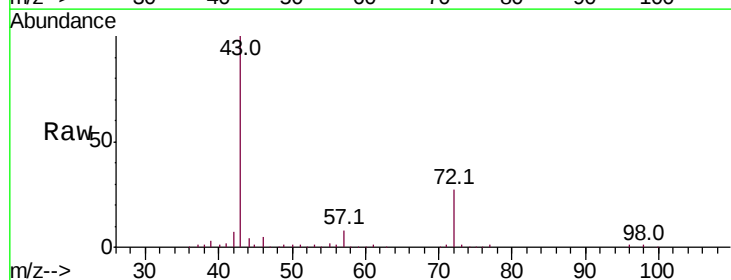


Abundance Ion 63.10 (62.80 to 63.80): VU0
 150000 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

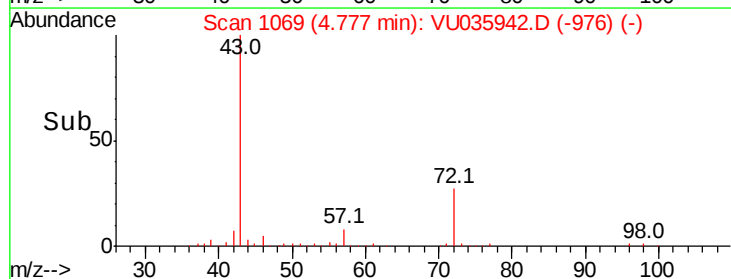
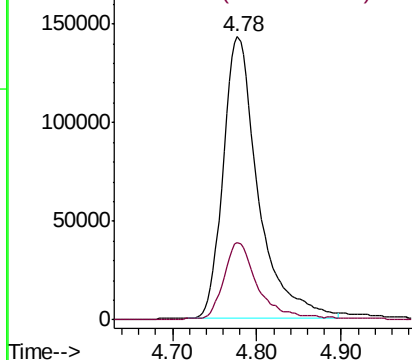


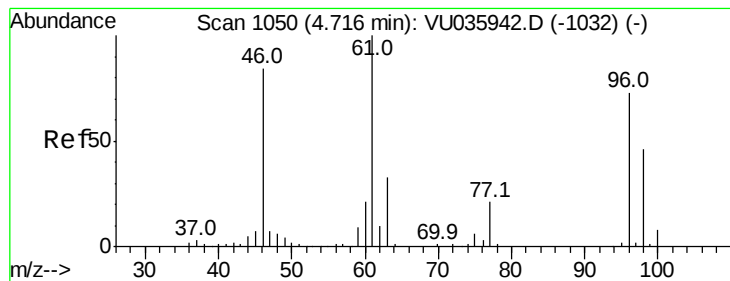
#21
 2-Butanone
 Concen: 49.108 ug/L
 RT: 4.78 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

Tgt Ion: 43 Resp: 412080
 Ion Ratio Lower Upper
 43 100
 72 25.2 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
 150000 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.190 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

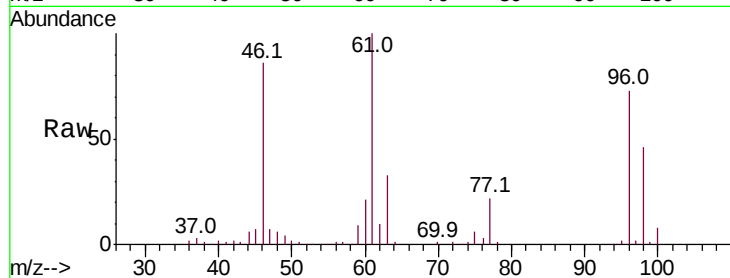
Tot Ion: 96 Resp: 140193

Ion Ratio Lower Upper

96 100

61 136.7 95.7 177.7

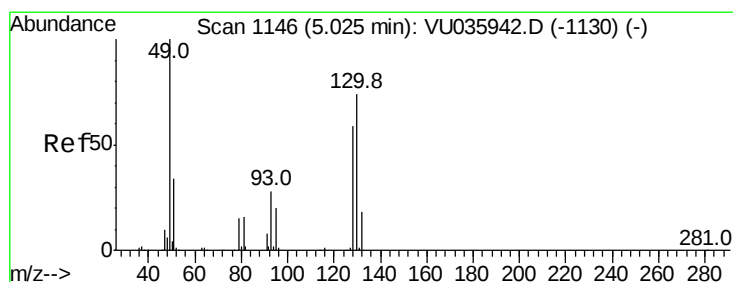
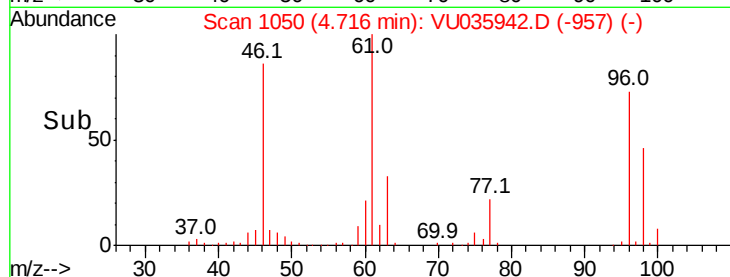
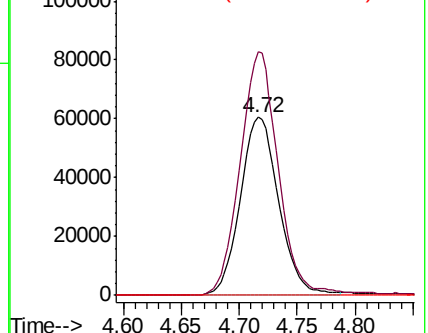
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035942.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU035942.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU035942.D (-1032) (-)



#23

Bromochloromethane

Concen: 4.201 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Tgt Ion: 128 Resp: 66755

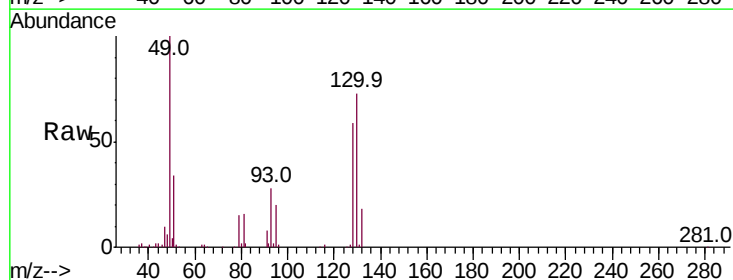
Ion Ratio Lower Upper

128 100

49 169.0 118.3 219.7

130 124.1 86.9 161.3

51 57.0 45.6 68.4

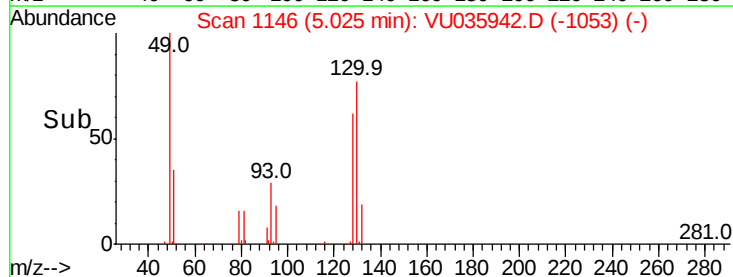
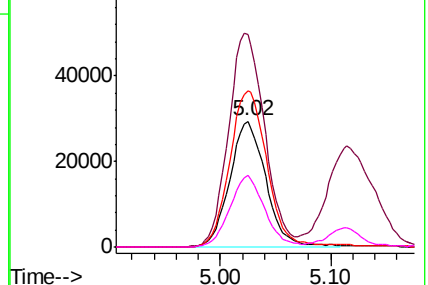


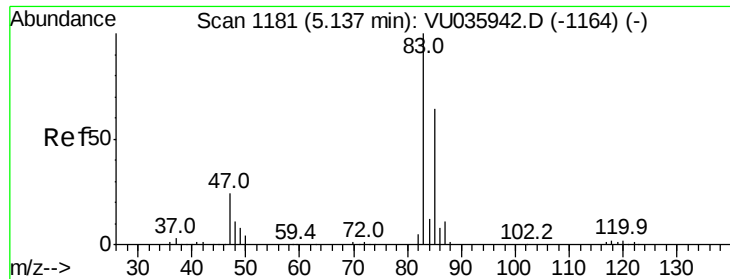
Abundance Ion 127.90 (127.60 to 128.60): VU035942.D (-1130) (-)

Ion 49.10 (48.80 to 49.80): VU035942.D (-1130) (-)

Ion 129.95 (129.65 to 130.65): VU035942.D (-1130) (-)

Ion 51.05 (50.75 to 51.75): VU035942.D (-1130) (-)

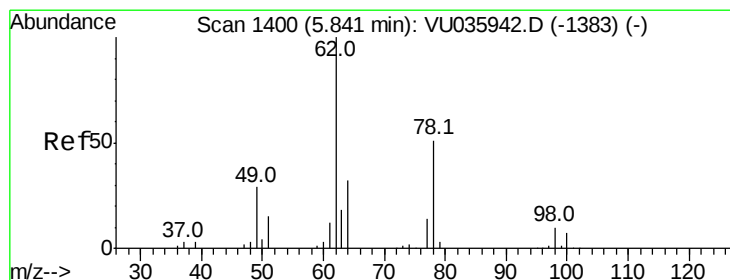
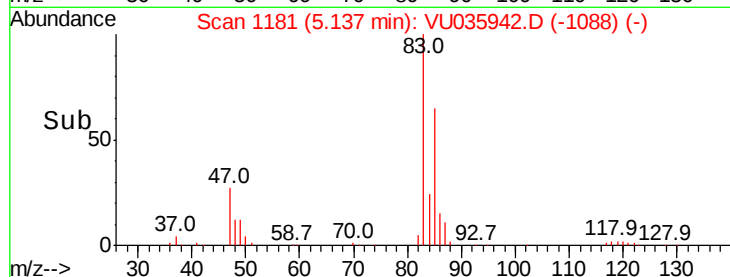
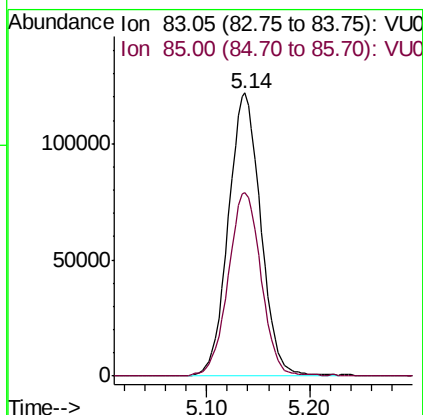
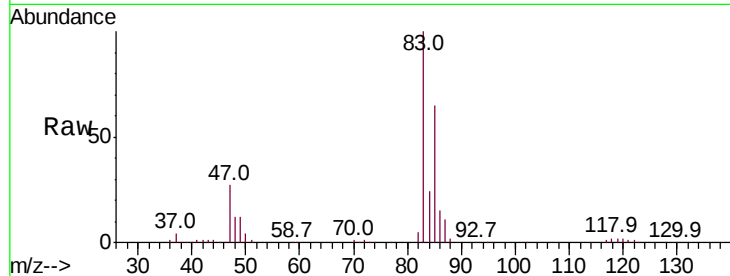




#25
Chloroform
Concen: 4.278 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

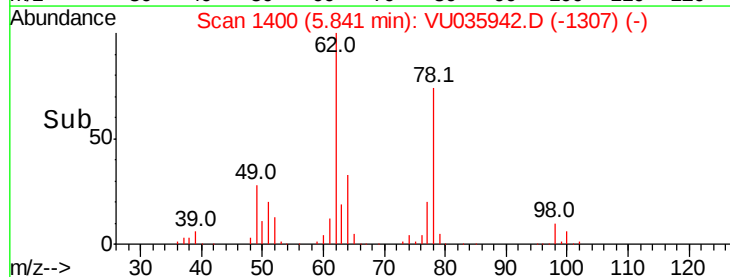
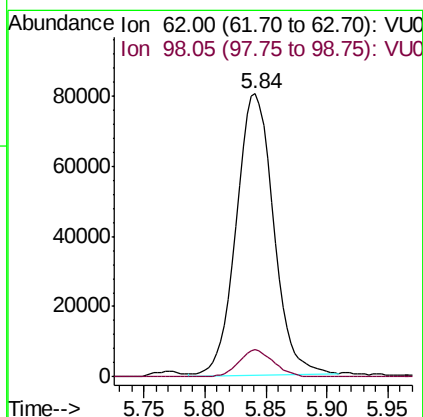
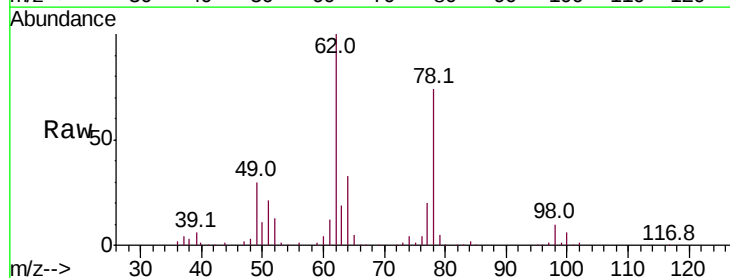
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

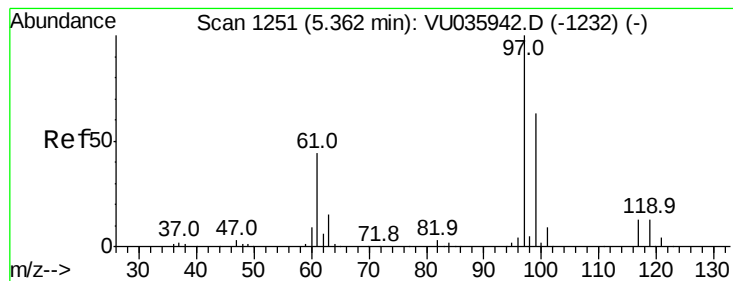
Tot Ion: 83 Resp: 266219
Ion Ratio Lower Upper
83 100
85 64.8 45.4 84.2



#27
1,2-Dichloroethane
Concen: 4.837 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

Tgt Ion: 62 Resp: 169450
Ion Ratio Lower Upper
62 100
98 9.5 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 4.763 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

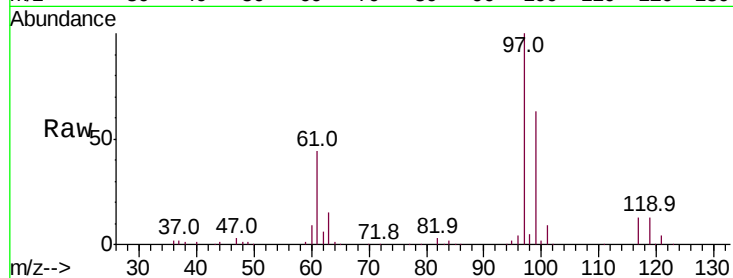
Tot Ion: 97 Resp: 219609

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.8

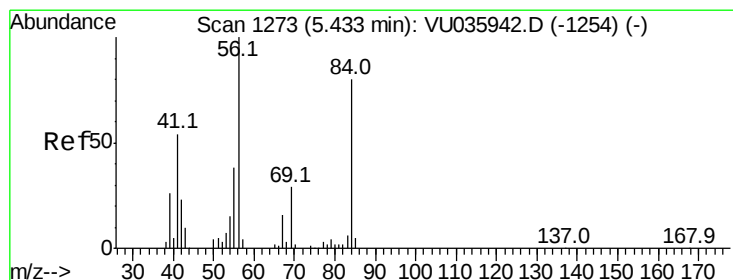
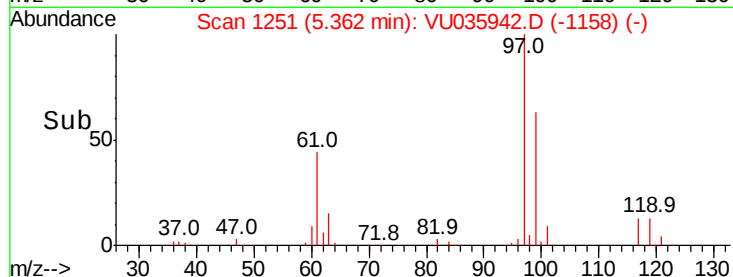
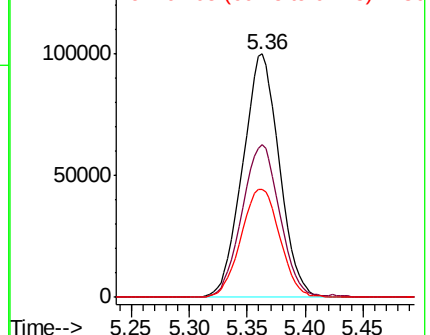
61 47.0 37.6 56.4



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: 4.698 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

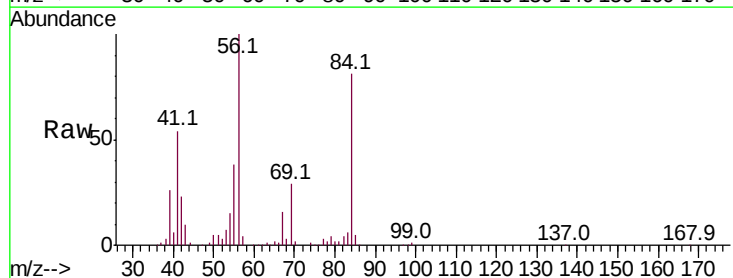
Tgt Ion: 56 Resp: 216622

Ion Ratio Lower Upper

56 100

69 30.0 24.0 36.0

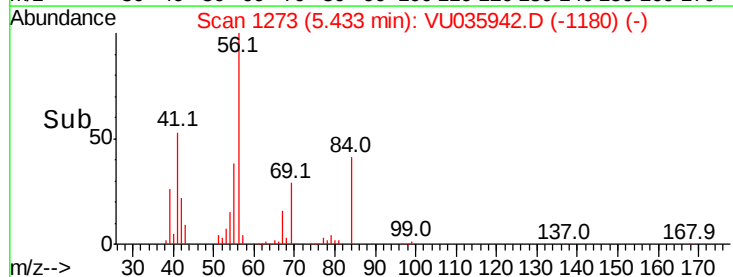
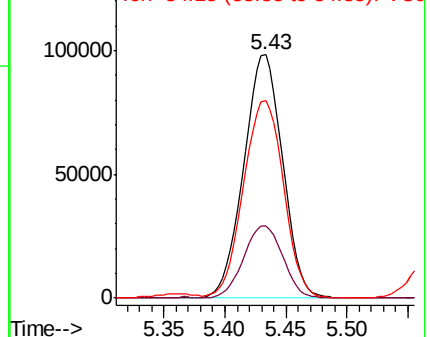
84 83.6 66.9 100.3

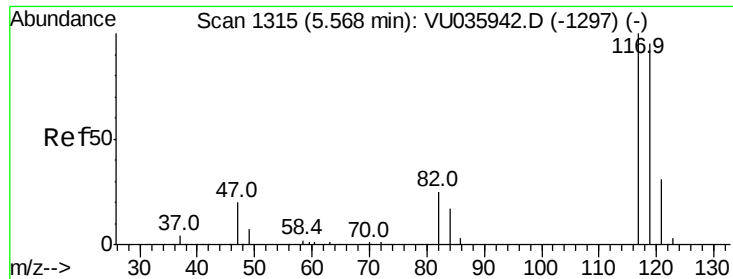


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.691 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

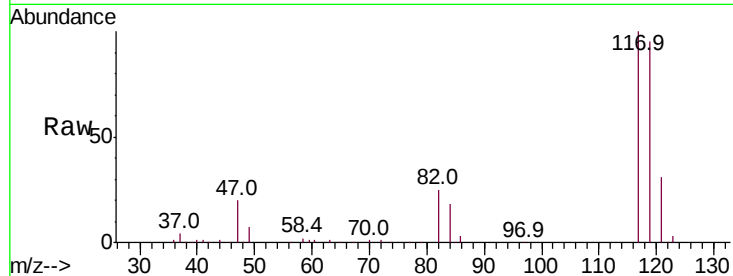
VSTD00506

Tot Ion:117 Resp: 193710

Ion Ratio Lower Upper

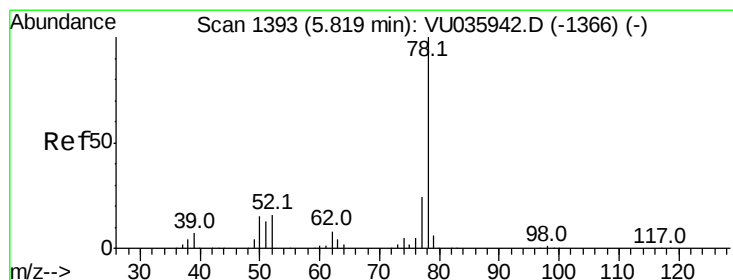
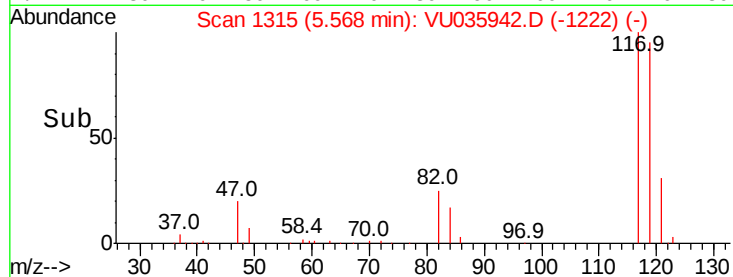
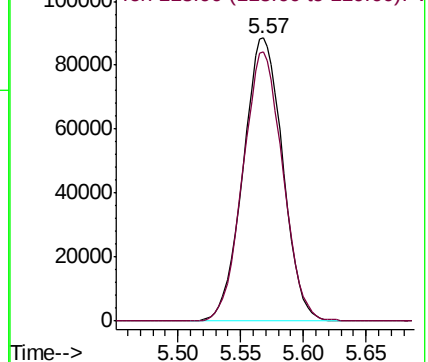
117 100

119 96.1 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: 4.761 ug/L

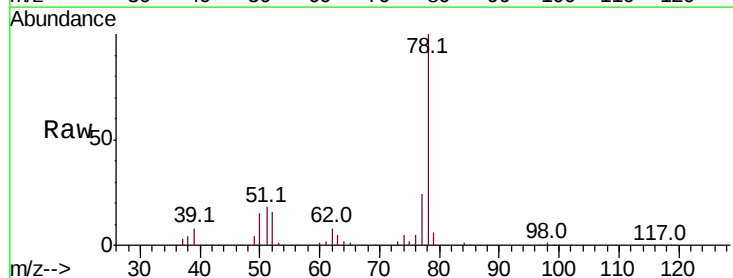
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

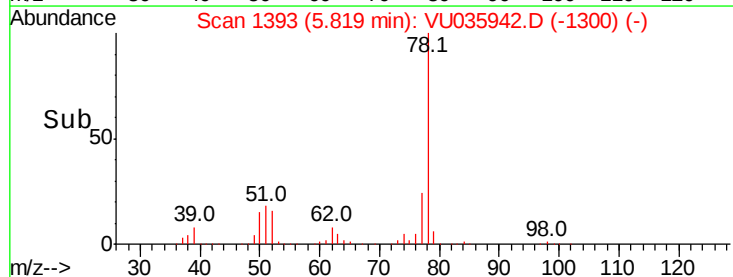
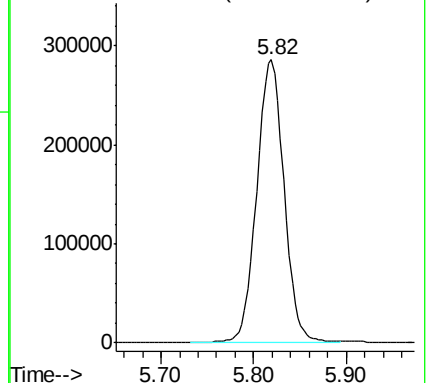
Lab File: VU035942.D

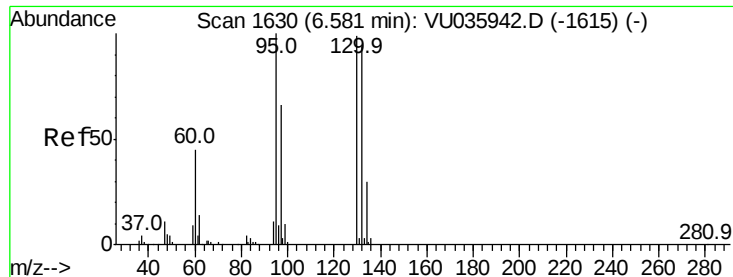
Acq: 03 Dec 2019 11:43

Tgt Ion: 78 Resp: 588361



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.533 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

Tot Ion: 95 Resp: 142115

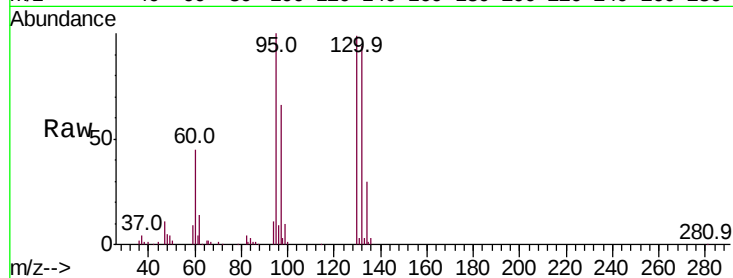
Ion Ratio Lower Upper

95 100

97 66.1 46.3 85.9

132 93.9 65.7 122.1

130 98.9 69.2 128.6

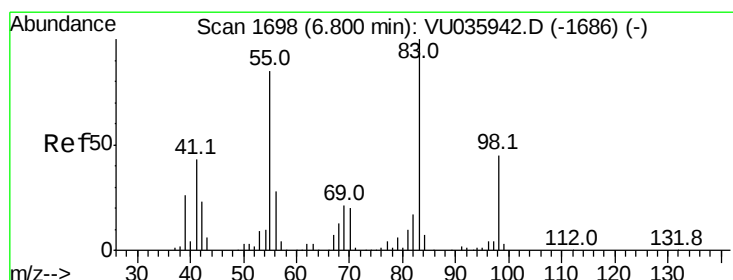
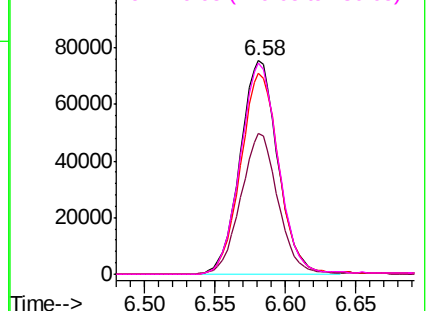
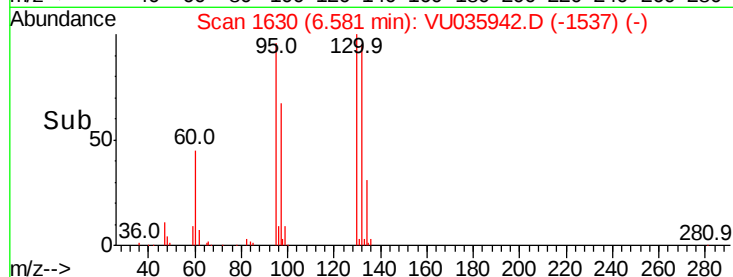


Abundance Ion 95.00 (94.70 to 95.70): VU035942.D (-1615) (-)

Ion 96.95 (96.65 to 97.65): VU035942.D (-1615) (-)

Ion 131.95 (131.65 to 132.65): VU035942.D (-1615) (-)

Ion 129.95 (129.65 to 130.65): VU035942.D (-1615) (-)



#35

Methylcyclohexane

Concen: 4.578 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

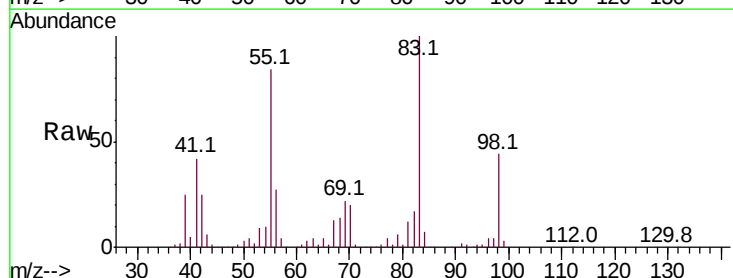
Tgt Ion: 83 Resp: 218637

Ion Ratio Lower Upper

83 100

55 84.2 67.4 101.0

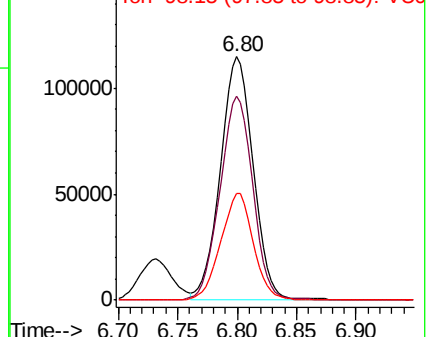
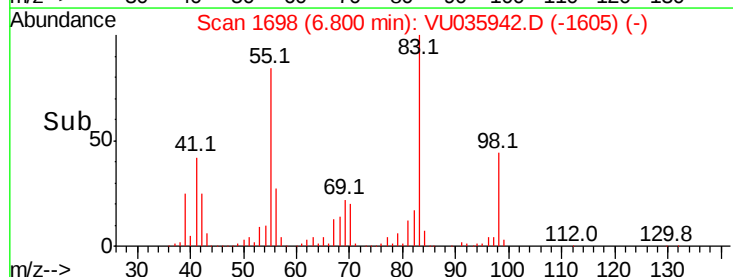
98 43.3 34.6 52.0

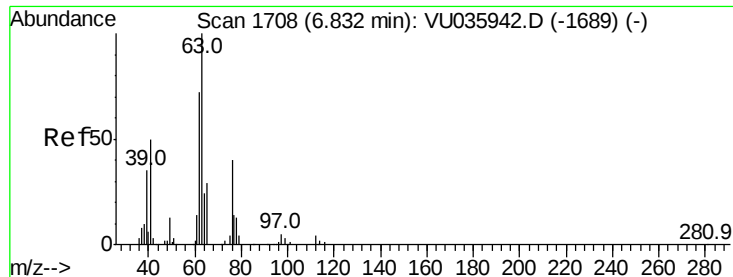


Abundance Ion 83.15 (82.85 to 83.85): VU035942.D (-1686) (-)

Ion 55.10 (54.80 to 55.80): VU035942.D (-1686) (-)

Ion 98.15 (97.85 to 98.85): VU035942.D (-1686) (-)





#37

1,2-Dichloropropane

Concen: 4.684 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

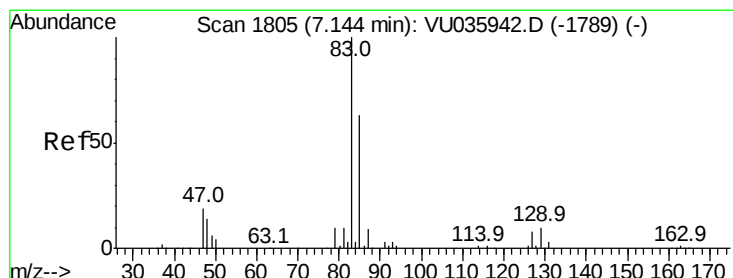
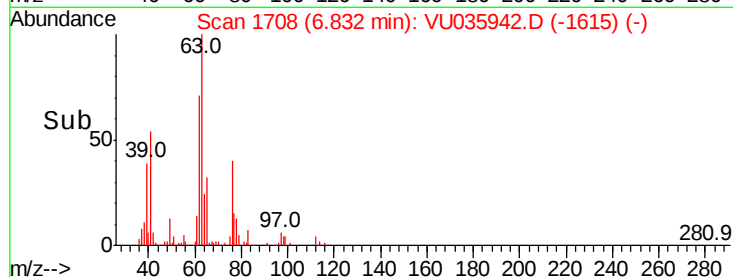
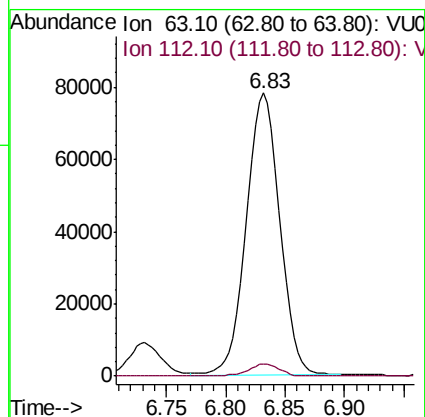
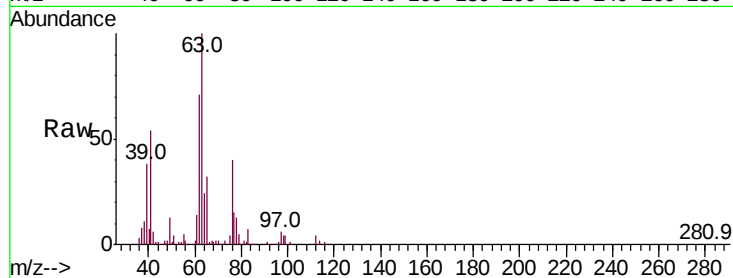
VSTD00506

Tot Ion: 63 Resp: 152648

Ion Ratio Lower Upper

63 100

112 4.1 3.3 4.9



#38

Bromodichloromethane

Concen: 4.755 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

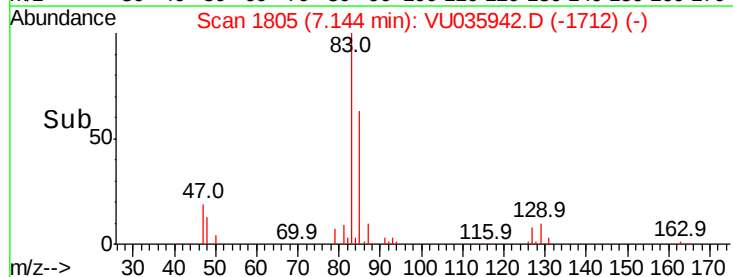
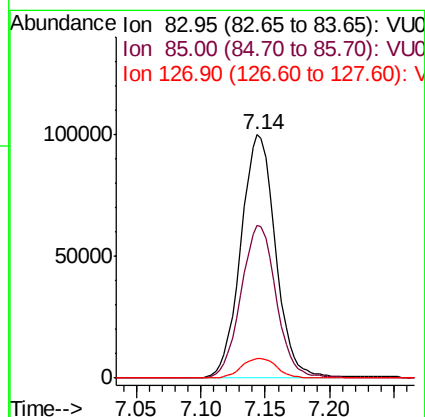
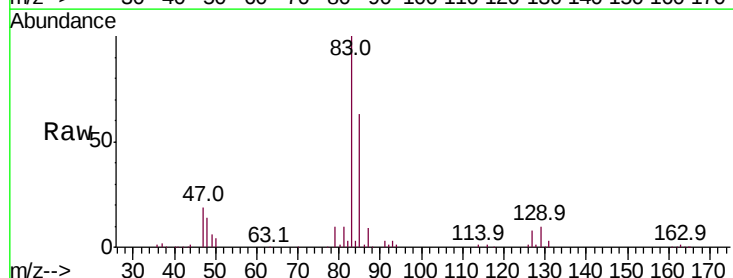
Tgt Ion: 83 Resp: 187790

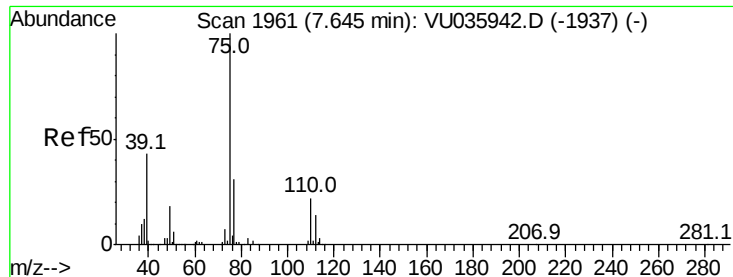
Ion Ratio Lower Upper

83 100

85 62.9 44.0 81.8

127 8.1 6.5 9.7

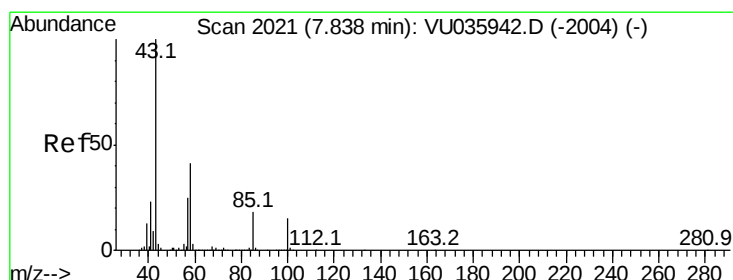
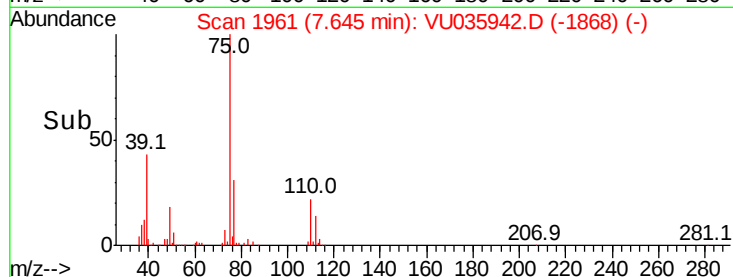
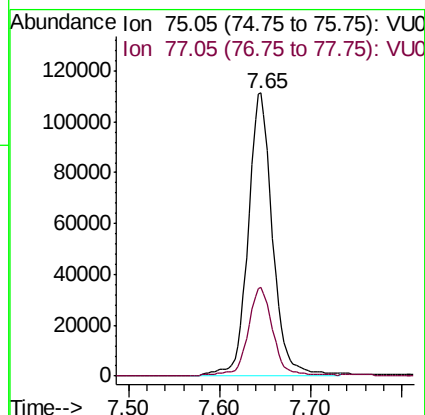
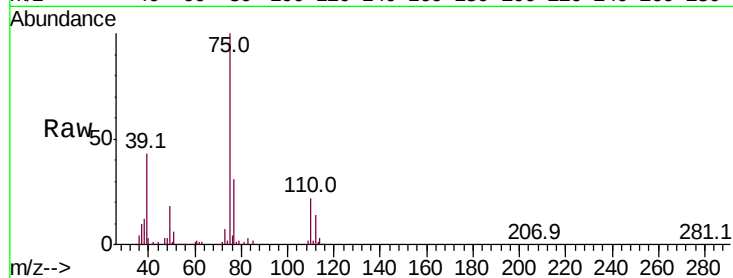




#39
 cis-1,3-Dichloropropene
 Concen: 4.514 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

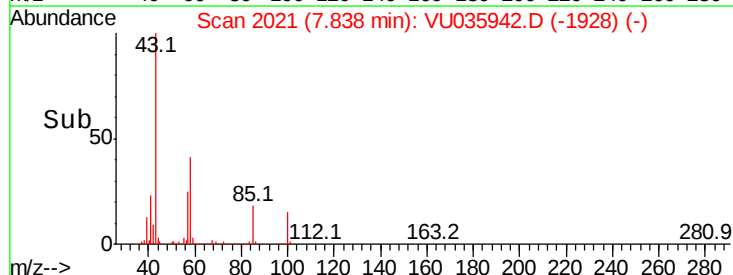
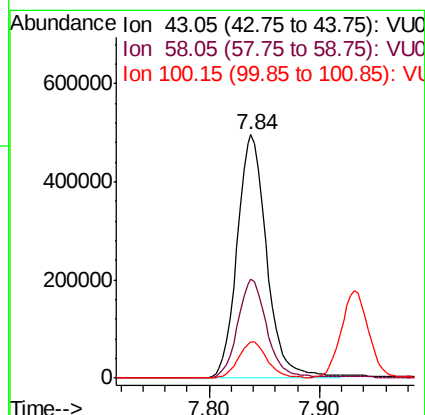
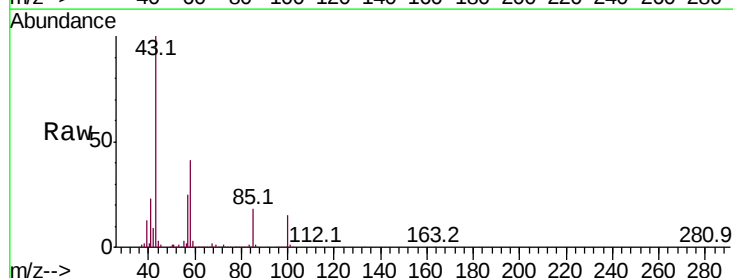
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

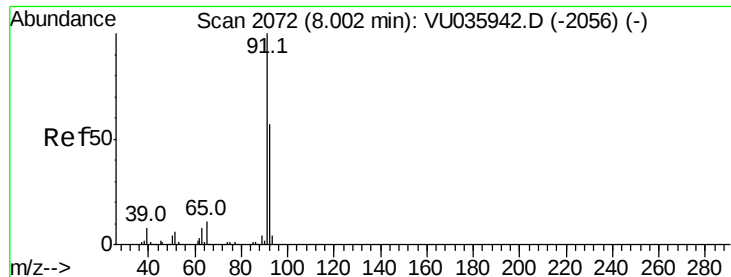
Tot Ion: 75 Resp: 208186
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 48.988 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

Tgt Ion: 43 Resp: 922511
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.3 48.5
 100 14.6 11.7 17.5





#42

Toluene

Concen: 4.821 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

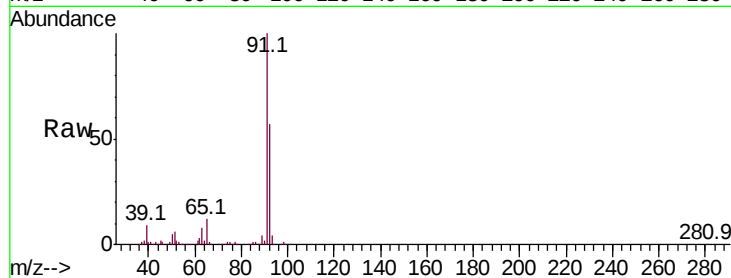
VSTD00506

Tot Ion: 91 Resp: 624222

Ion Ratio Lower Upper

91 100

92 56.9 39.8 74.0



Abundance Ion 91.15 (90.85 to 91.85): VU035942.D (-2056) (-)

Ion 92.15 (91.85 to 92.85): VU035942.D (-2056) (-)

8.00

400000

300000

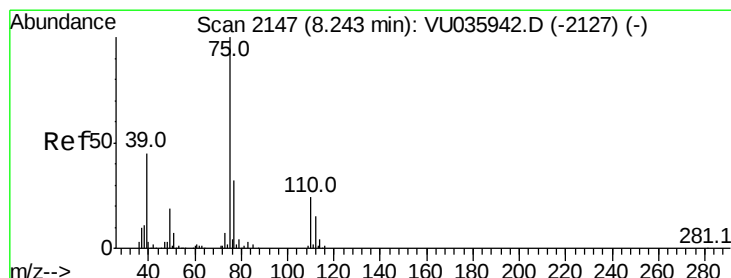
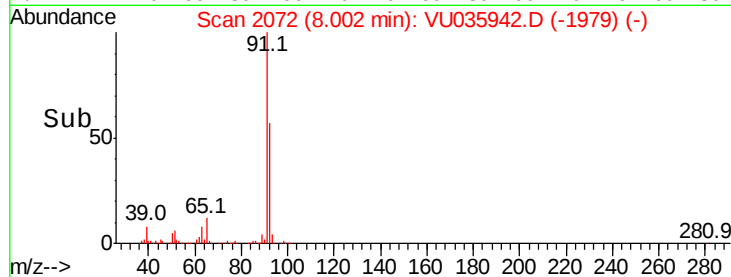
200000

100000

0

7.90 7.95 8.00 8.05

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.749 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU035942.D

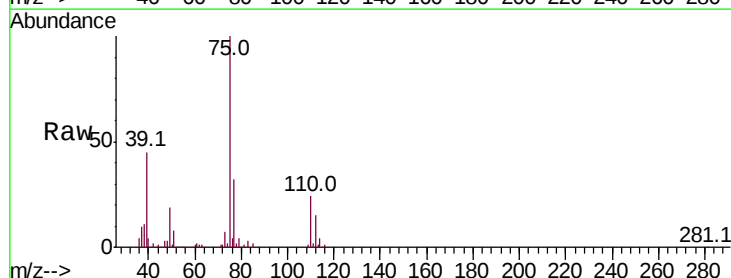
Acq: 03 Dec 2019 11:43

Tgt Ion: 75 Resp: 175817

Ion Ratio Lower Upper

75 100

77 32.0 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU035942.D (-2127) (-)

Ion 77.05 (76.75 to 77.75): VU035942.D (-2127) (-)

8.24

100000

80000

60000

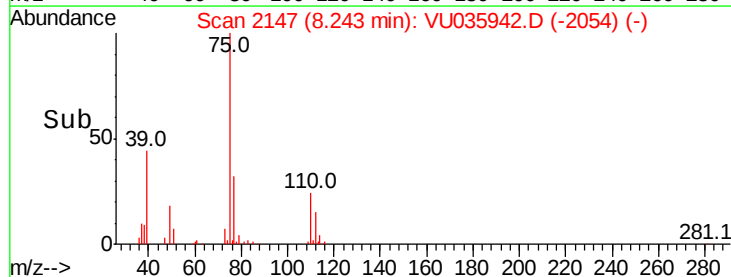
40000

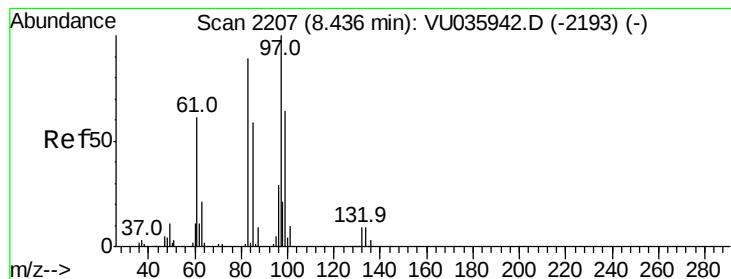
20000

0

8.20 8.30

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.661 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

Tot Ion: 97 Resp: 108153

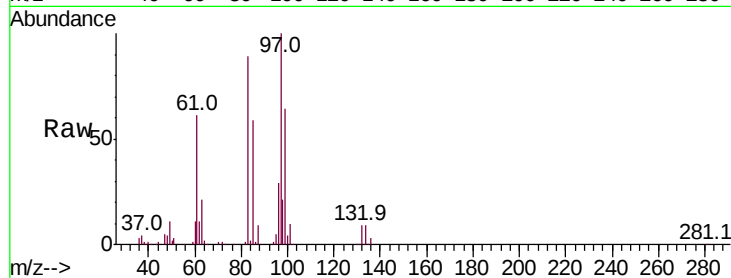
Ion Ratio Lower Upper

97 100

99 64.3 45.0 83.6

83 88.7 62.1 115.3

85 59.2 41.4 77.0

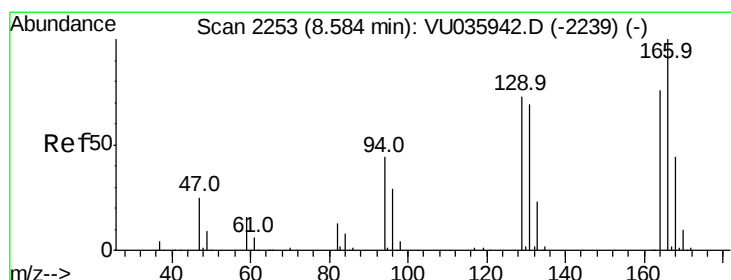
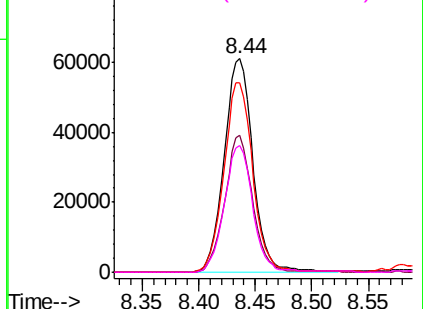
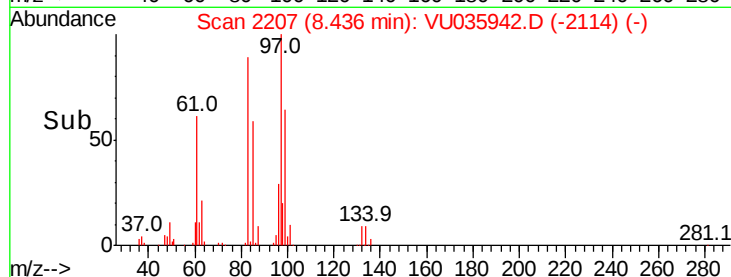


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 4.376 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Tgt Ion: 164 Resp: 118094

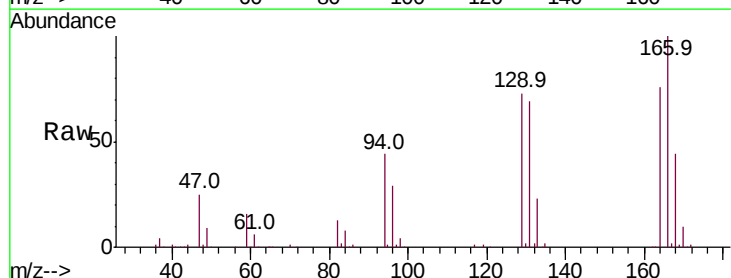
Ion Ratio Lower Upper

164 100

129 97.0 67.9 126.1

131 91.6 64.1 119.1

166 132.3 92.6 172.0

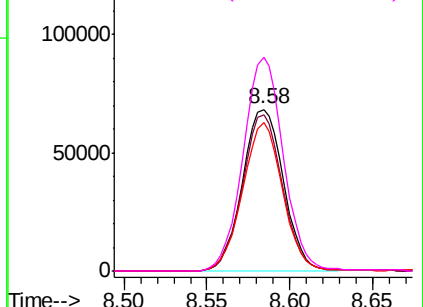
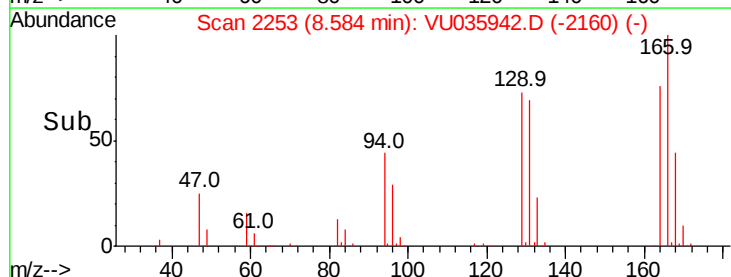


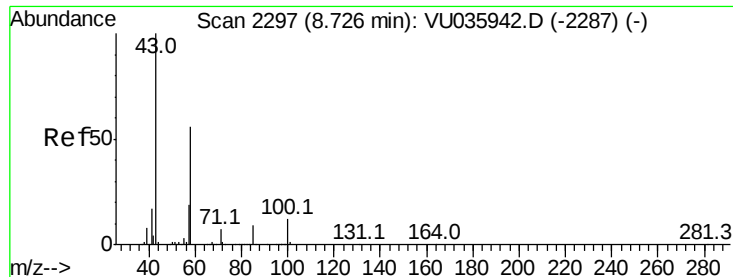
Abundance Ion 163.90 (163.60 to 164.60): V

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

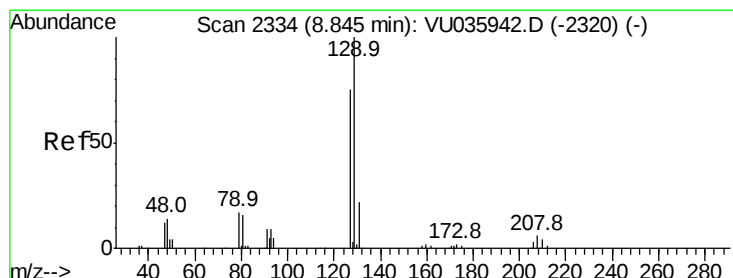
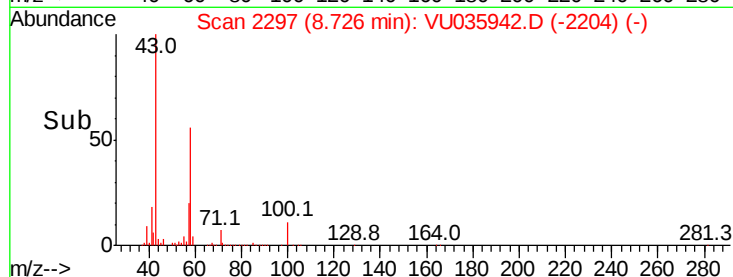
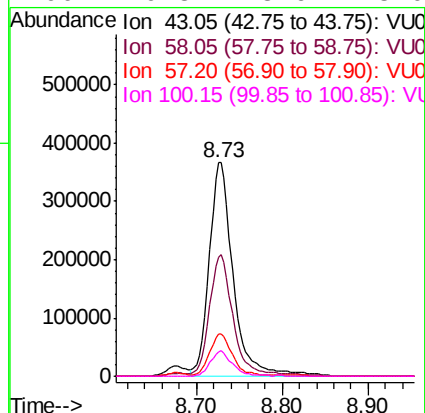
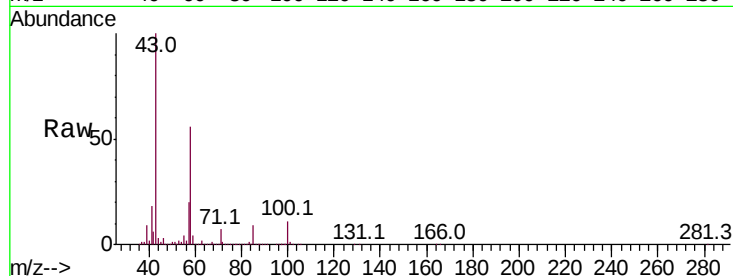




#48
2-Hexanone
Concen: 52.913 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

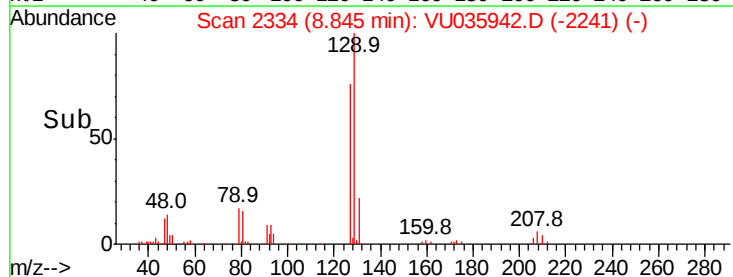
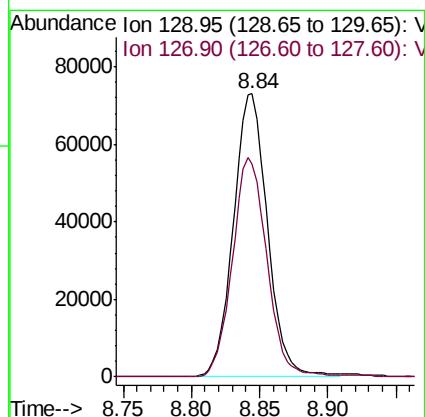
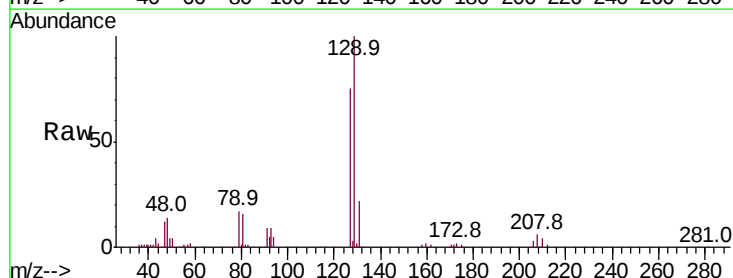
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

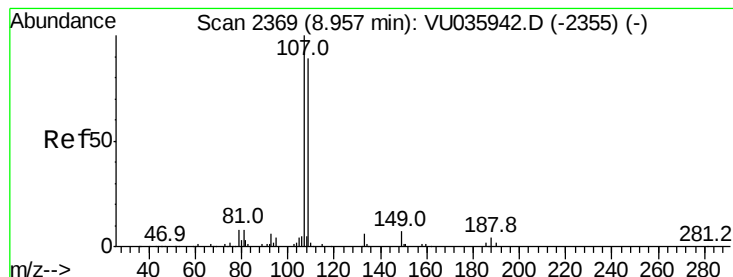
Tot Ion: 43 Resp: 715278
Ion Ratio Lower Upper
43 100
58 56.8 45.4 68.2
57 18.6 14.9 22.3
100 10.8 8.6 13.0



#49
Dibromochloromethane
Concen: 4.487 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

Tgt Ion: 129 Resp: 127244
Ion Ratio Lower Upper
129 100
127 75.4 52.8 98.0





#50

1,2-Dibromoethane

Concen: 4.727 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

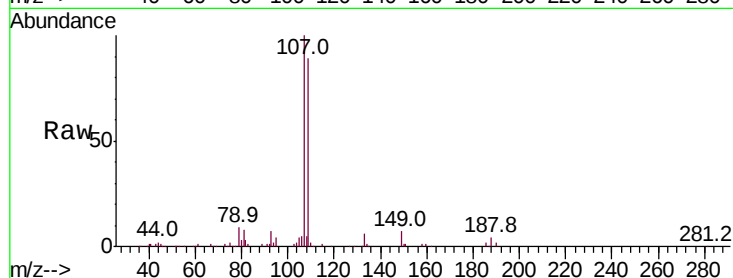
Tot Ion:107 Resp: 104299

Ion Ratio Lower Upper

107 100

109 89.3 62.5 116.1

188 3.8 3.0 4.6

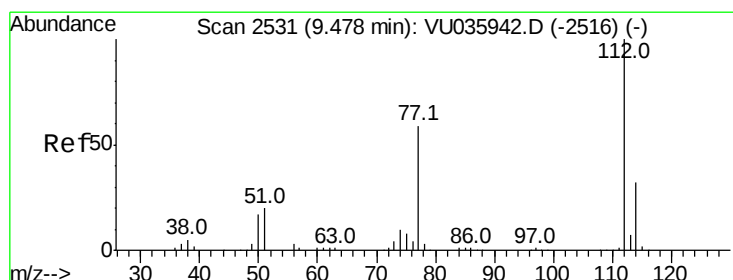
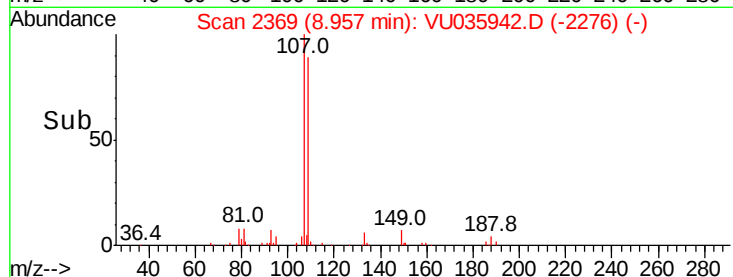
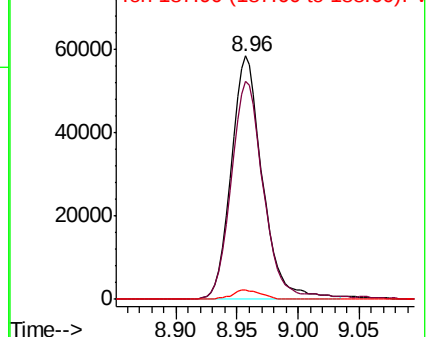


Abundance

Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.494 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

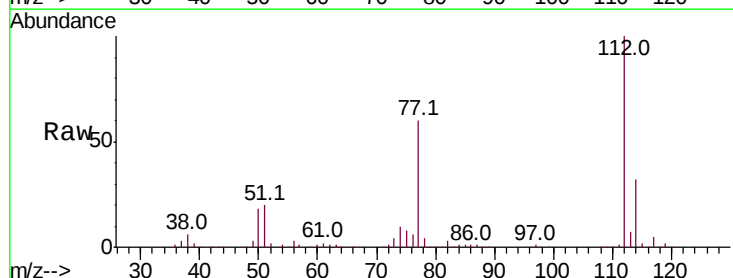
Tgt Ion:112 Resp: 376951

Ion Ratio Lower Upper

112 100

114 32.1 22.5 41.7

77 59.6 47.7 71.5

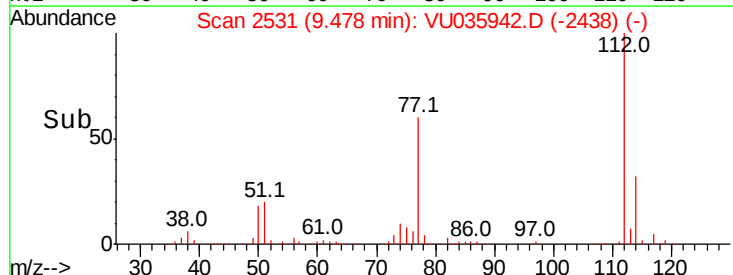
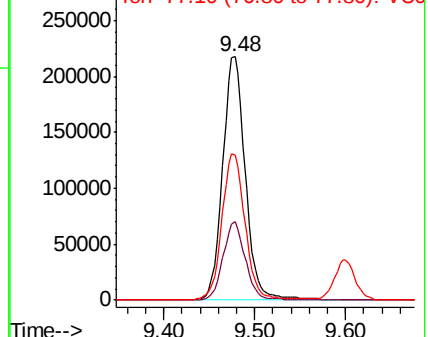


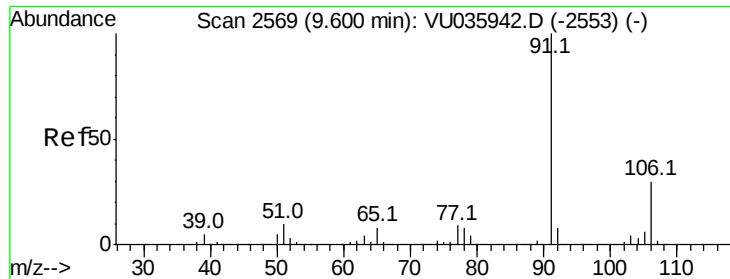
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.515 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

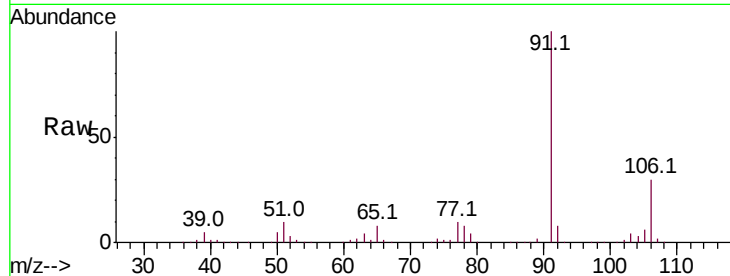
VSTD00506

Tot Ion: 91 Resp: 609496

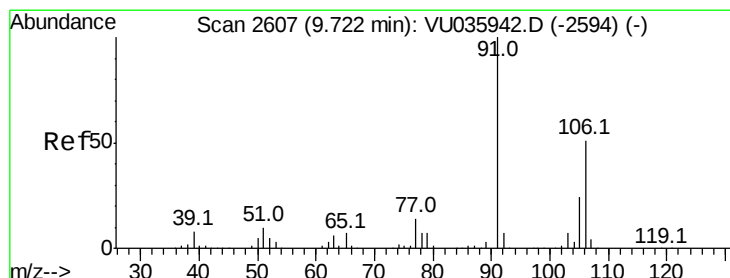
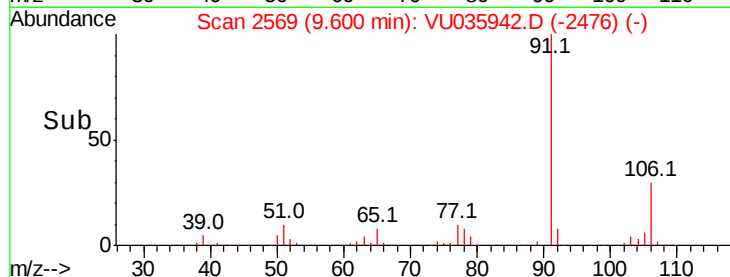
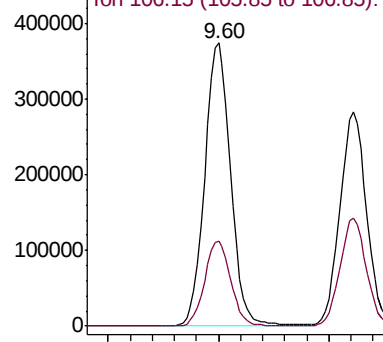
Ion Ratio Lower Upper

91 100

106 30.2 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU035942.D (-2553) (-)



#53

m,p-Xylene

Concen: 4.676 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035942.D

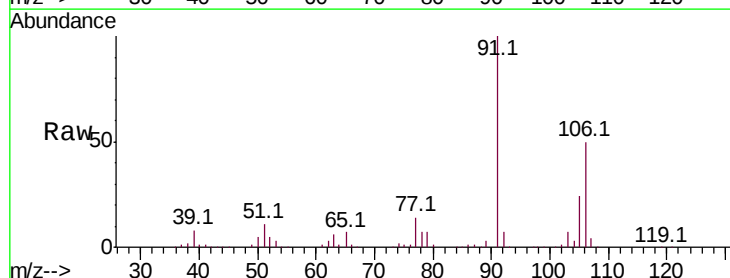
Acq: 03 Dec 2019 11:43

Tgt Ion: 106 Resp: 239296

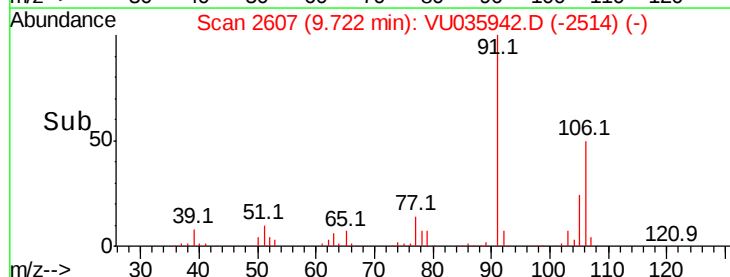
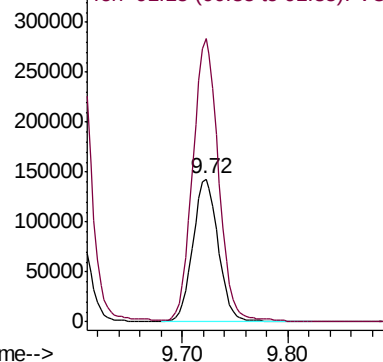
Ion Ratio Lower Upper

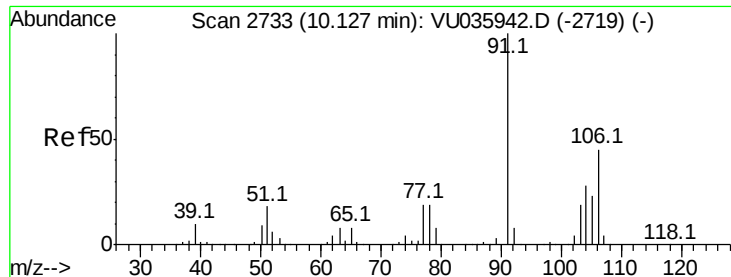
106 100

91 198.4 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU035942.D (-2594) (-)

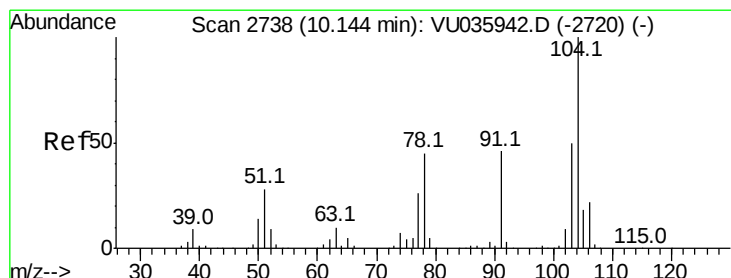
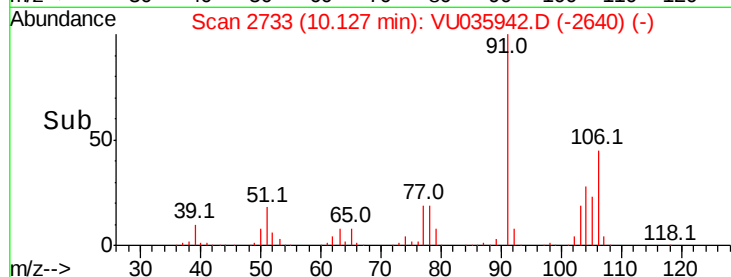
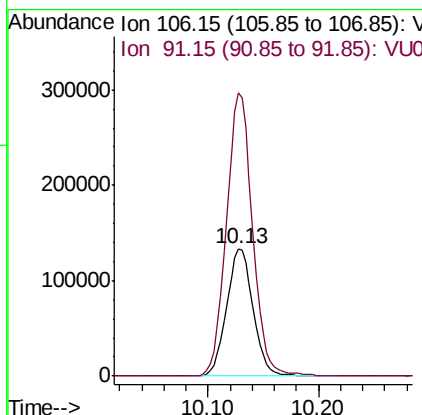
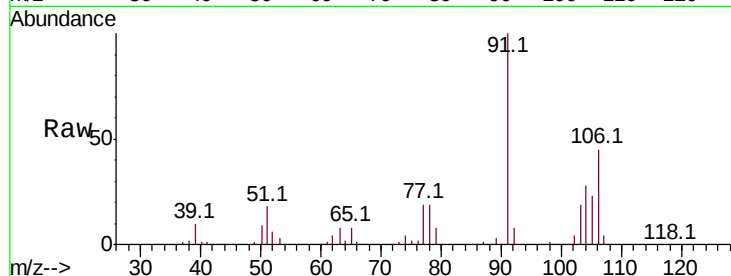




#54
o-Xylene
Concen: 4.539 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

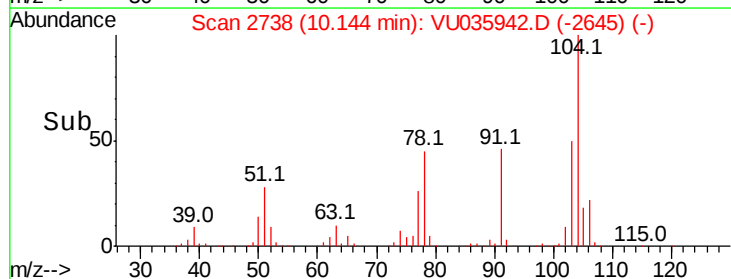
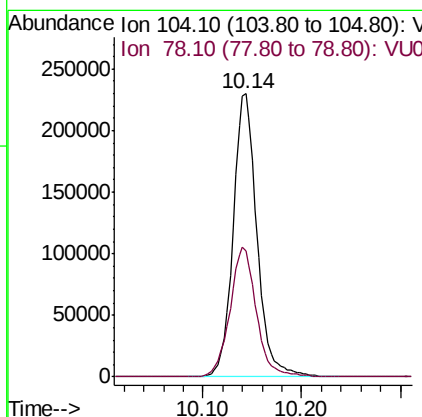
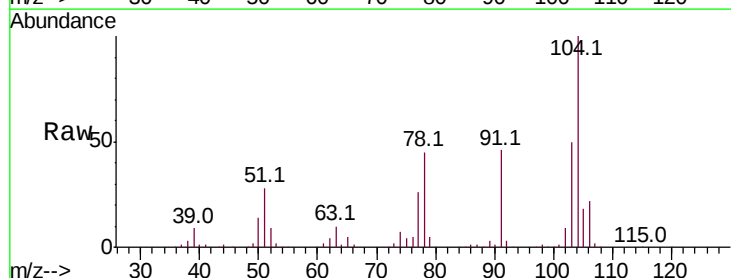
Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

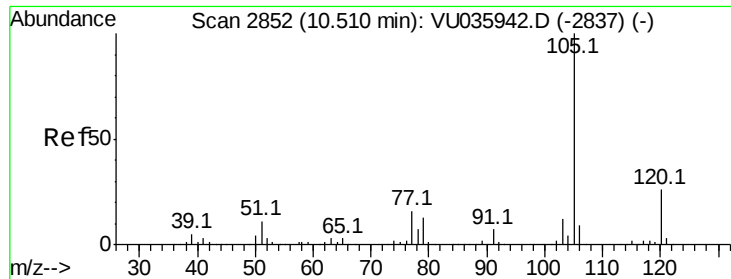
Tot Ion:106 Resp: 222617
Ion Ratio Lower Upper
106 100
91 221.8 155.3 288.3



#55
Styrene
Concen: 4.742 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

Tgt Ion:104 Resp: 386098
Ion Ratio Lower Upper
104 100
78 44.6 31.2 58.0





#56

Isopropylbenzene

Concen: 4.461 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

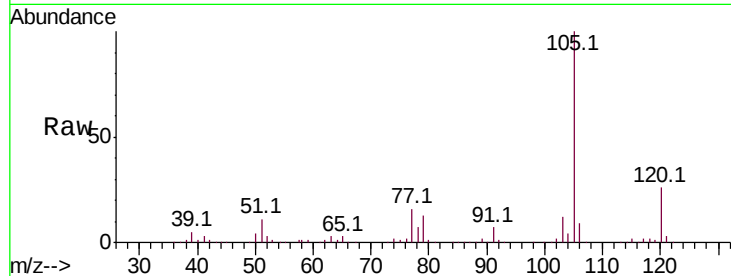
Tot Ion:105 Resp: 575594

Ion Ratio Lower Upper

105 100

120 26.6 21.3 31.9

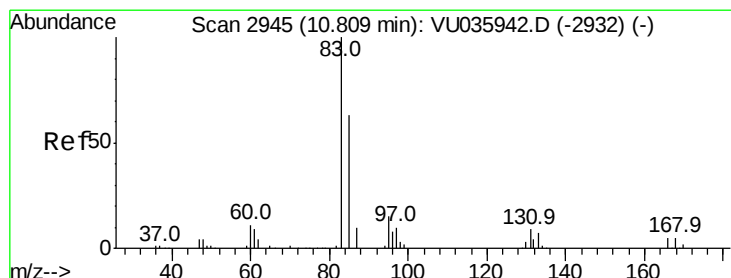
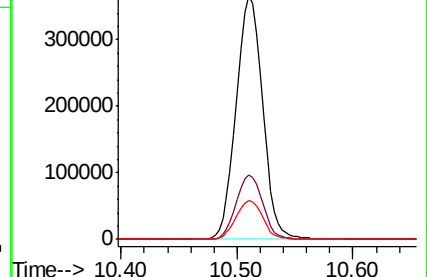
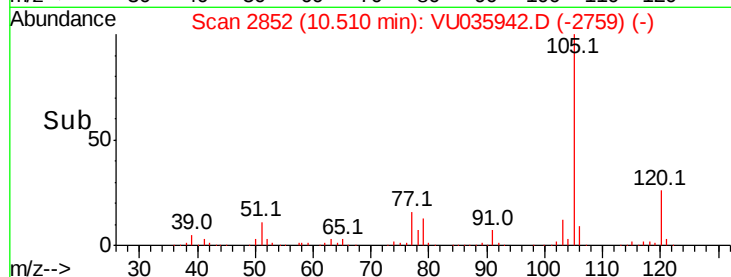
77 16.4 13.1 19.7



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: 4.663 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

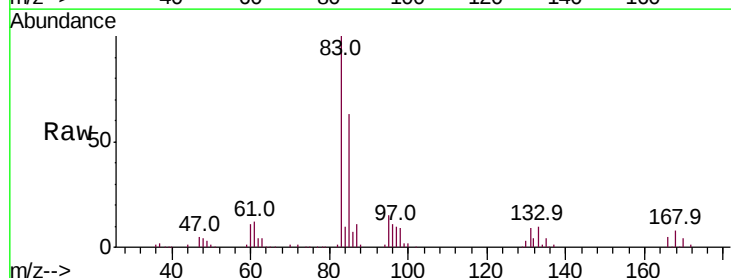
Tgt Ion: 83 Resp: 141918

Ion Ratio Lower Upper

83 100

85 63.3 44.3 82.3

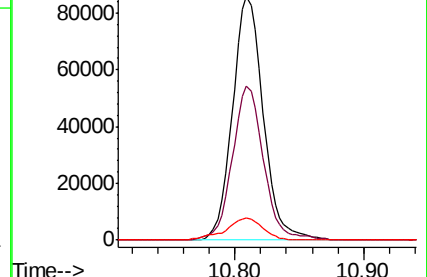
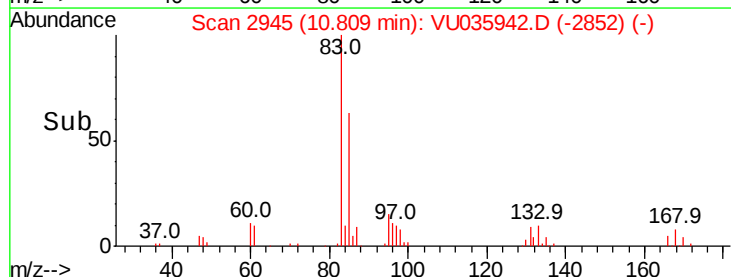
131 9.0 7.2 10.8

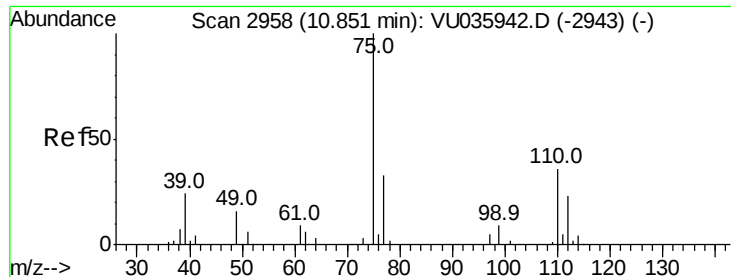


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

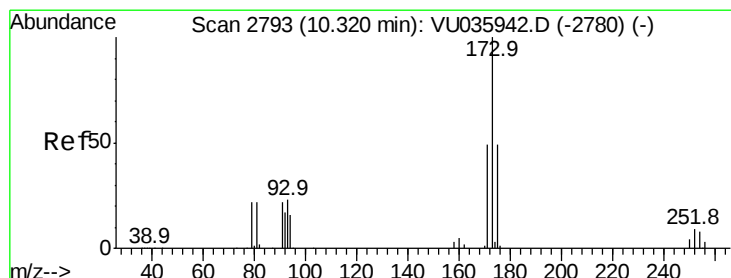
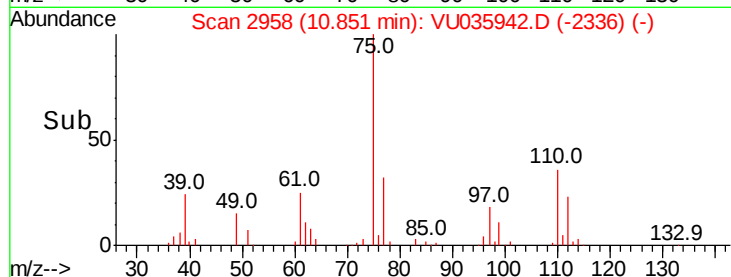
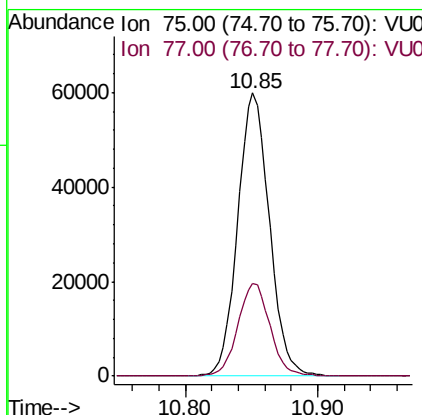
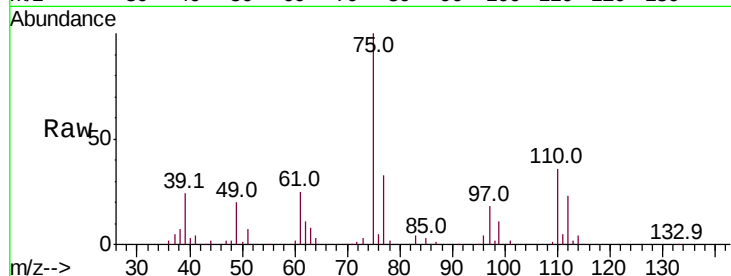




#59
 1,2,3-Trichloropropane
 Concen: 4.640 ug/L
 RT: 10.85 min Scan# 2958
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

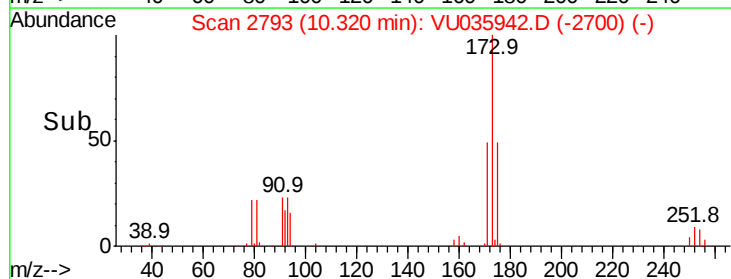
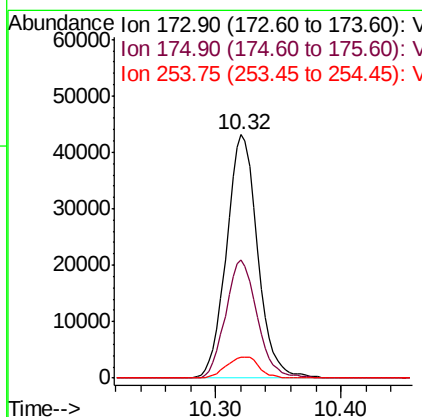
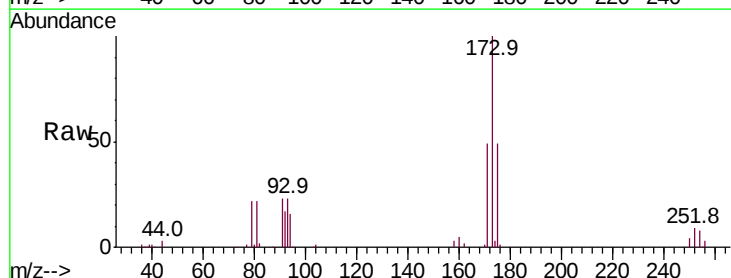
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

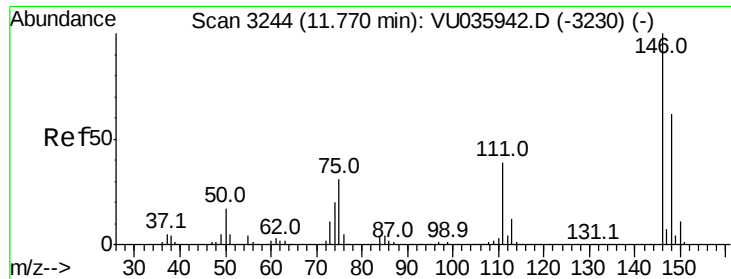
Tot Ion: 75 Resp: 99518
 Ion Ratio Lower Upper
 75 100
 77 33.2 26.6 39.8



#61
 Bromoform
 Concen: 4.829 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

Tgt Ion: 173 Resp: 74087
 Ion Ratio Lower Upper
 173 100
 175 49.1 39.3 58.9
 254 9.1 7.3 10.9

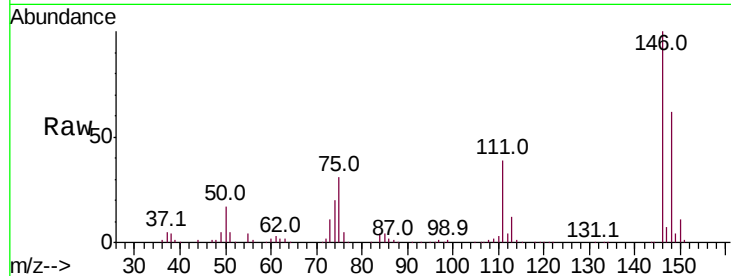




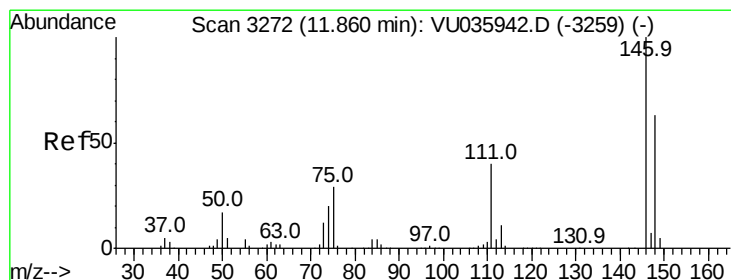
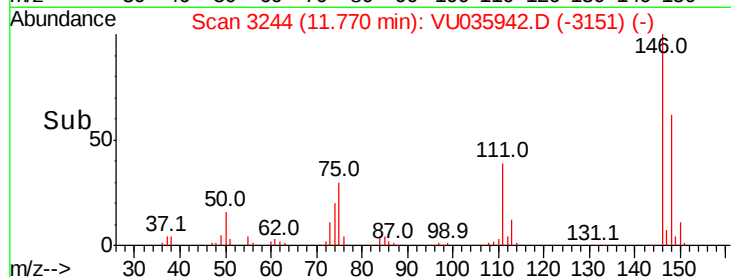
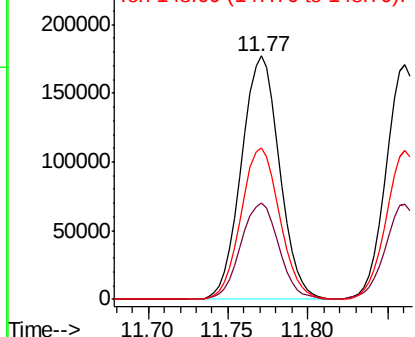
#62
 1,3-Dichlorobenzene
 Concen: 5.046 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00506

Tot Ion:146 Resp: 287781
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.6 51.4
 148 62.0 43.4 80.6

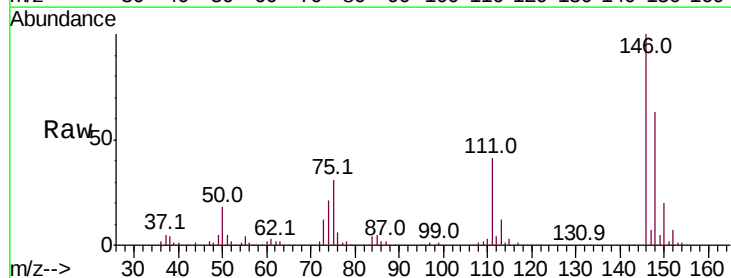


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

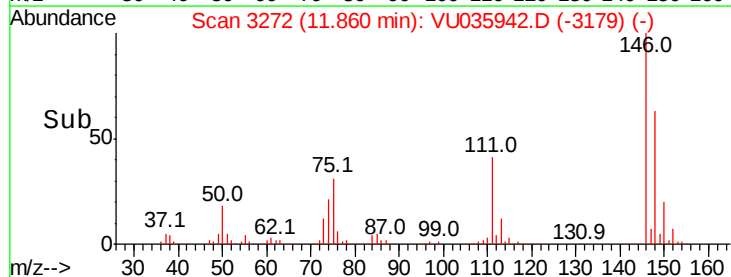
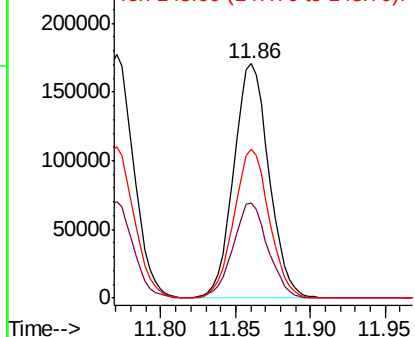


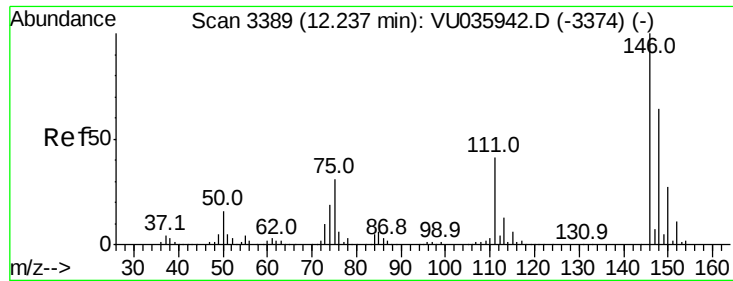
#63
 1,4-Dichlorobenzene
 Concen: 5.095 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU035942.D
 Acq: 03 Dec 2019 11:43

Tgt Ion:146 Resp: 279841
 Ion Ratio Lower Upper
 146 100
 111 40.7 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: 5.112 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

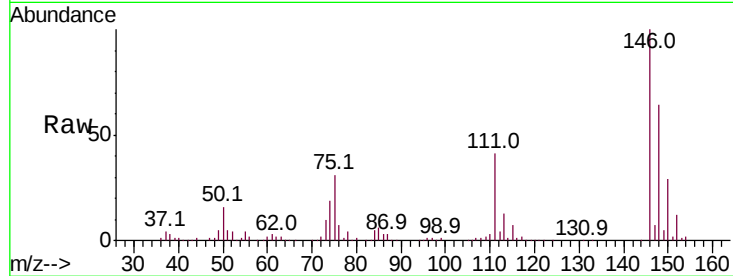
Tot Ion:146 Resp: 273806

Ion Ratio Lower Upper

146 100

111 40.7 32.6 48.8

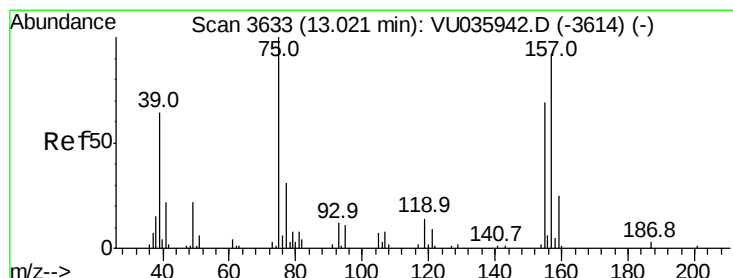
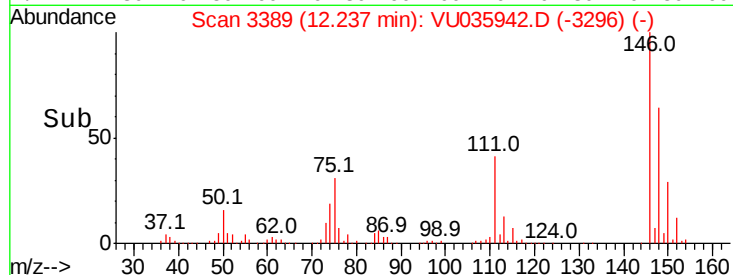
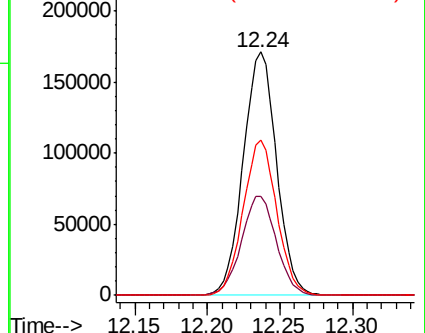
148 63.6 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.554 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

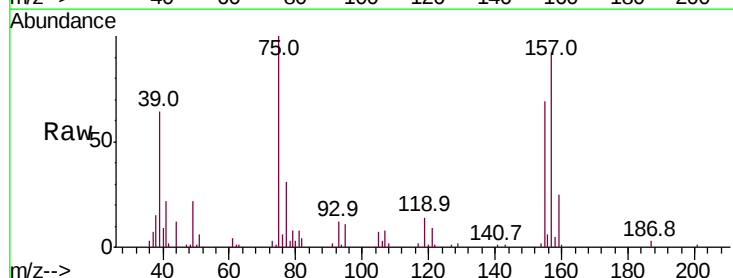
Tgt Ion: 75 Resp: 19510

Ion Ratio Lower Upper

75 100

155 68.9 55.1 82.7

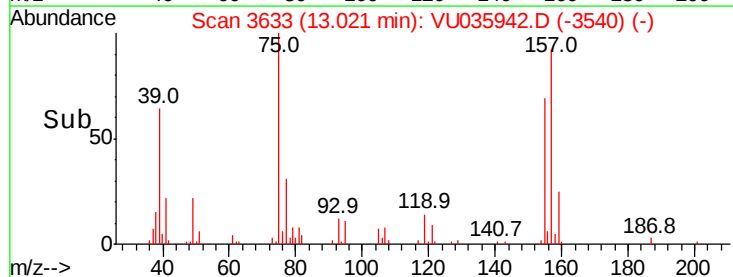
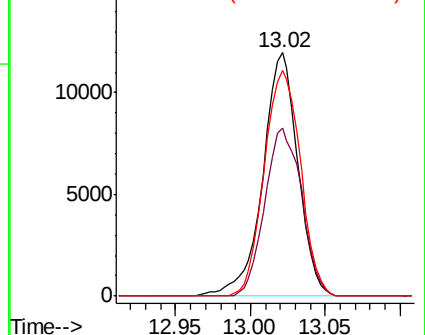
157 92.5 74.0 111.0

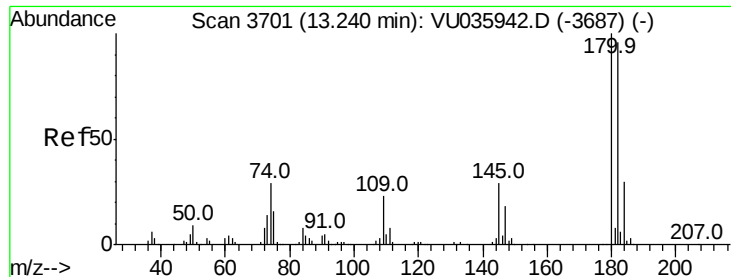


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#67

1,3,5-Trichlorobenzene

Concen: 5.262 ug/L

RT: 13.24 min Scan# 3701

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00506

Tot Ion:180 Resp: 193148

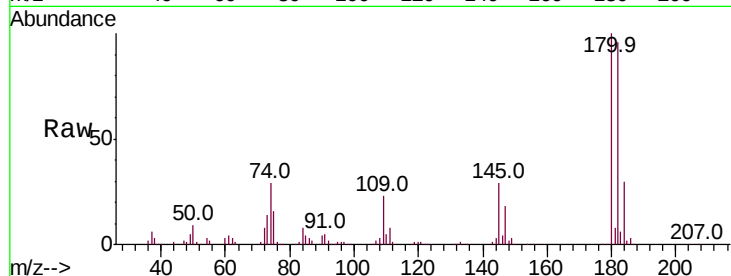
Ion Ratio Lower Upper

180 100

182 96.5 77.2 115.8

184 30.6 24.5 36.7

145 28.8 23.0 34.6

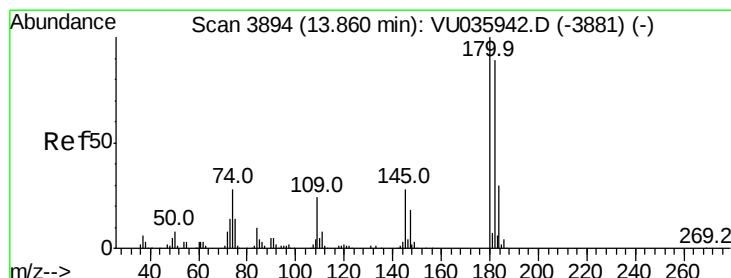
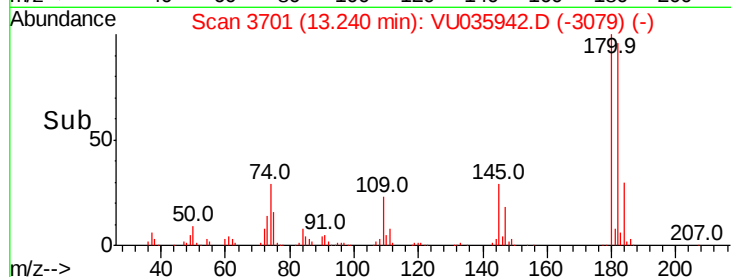
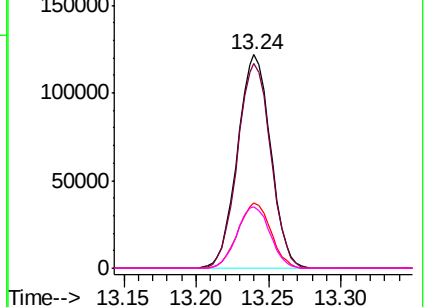


Abundance Ion 180.00 (179.70 to 180.70): V

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: 4.670 ug/L

RT: 13.86 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU035942.D

Acq: 03 Dec 2019 11:43

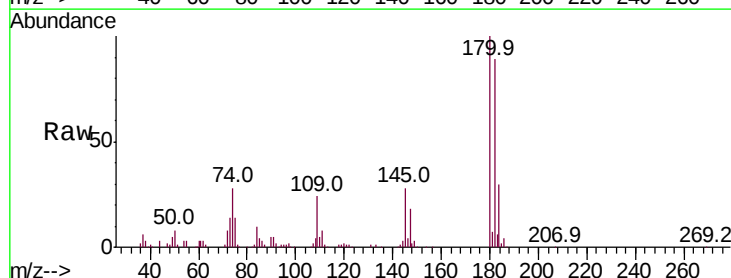
Tgt Ion:180 Resp: 102915

Ion Ratio Lower Upper

180 100

182 93.1 74.5 111.7

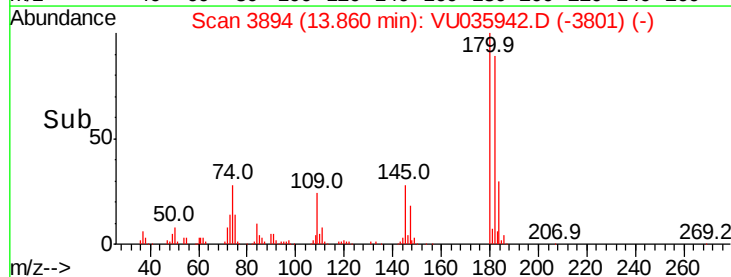
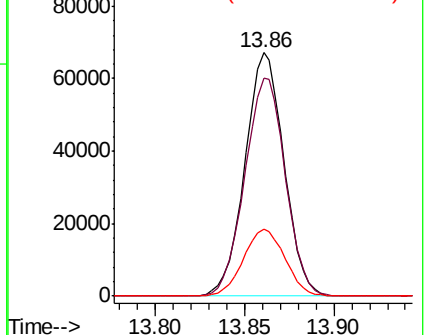
145 29.2 23.4 35.0

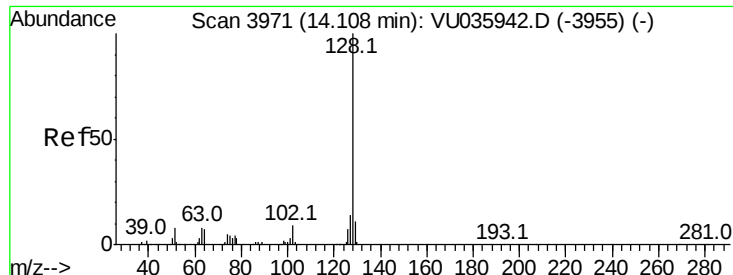


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

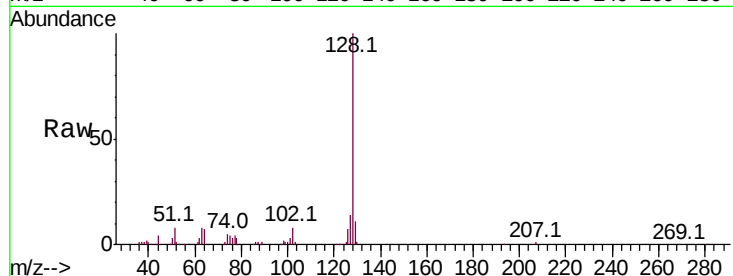




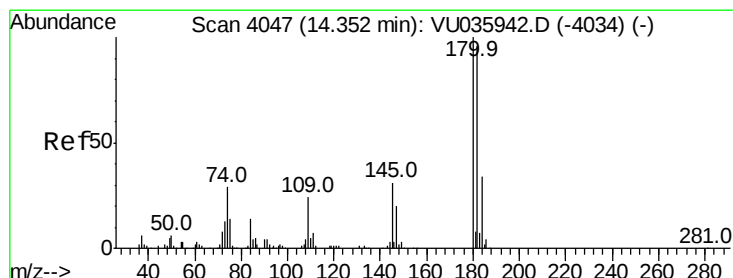
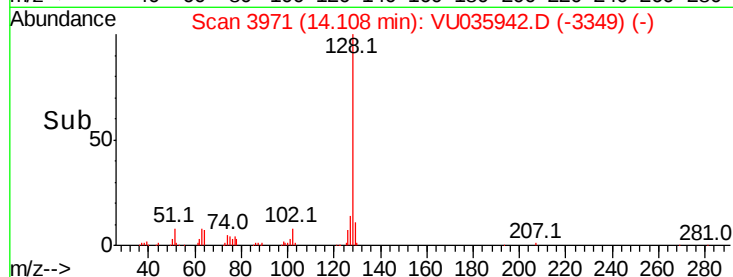
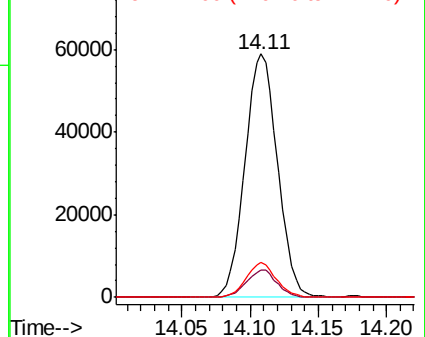
#69
Naphthalene
Concen: 3.677 ug/L
RT: 14.11 min Scan# 3971
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD00506

Tot Ion:128 Resp: 97454
Ion Ratio Lower Upper
128 100
129 10.5 8.4 12.6
127 13.2 10.6 15.8

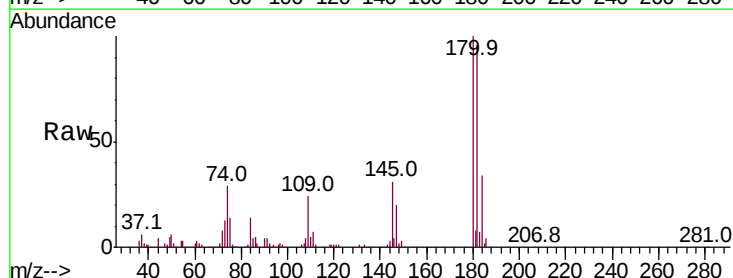


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70
1,2,3-Trichlorobenzene
Concen: 4.747 ug/L
RT: 14.35 min Scan# 4047
Delta R.T. 0.00 min
Lab File: VU035942.D
Acq: 03 Dec 2019 11:43

Tgt Ion:180 Resp: 100899
Ion Ratio Lower Upper
180 100
182 93.3 74.6 112.0
145 30.4 24.3 36.5



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

