

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102319\
 Data File : VU035451.D
 Acq On : 24 Oct 2019 10:49
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 24 14:22:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 24 14:19:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	219158	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	227600	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	99134	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	74918	5.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.20%
7) Chloroethane-d5	1.93	69	70708	5.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	115.80%
11) 1,1-Dichloroethene-d2	2.60	63	143483	5.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	116.20%
20) 2-Butanone-d5	4.70	46	214268	55.80	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.60%
24) Chloroform-d	5.11	84	144977	5.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	118.80%
26) 1,2-Dichloroethane-d4	5.75	65	77488	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.60%
32) Benzene-d6	5.77	84	264617	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.73	67	89627	5.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.40%
41) Toluene-d8	7.93	98	237677	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
43) trans-1,3-Dichloropropene-	8.21	79	34774	4.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.80%
46) 2-Hexanone-d5	8.68	63	157855	44.63	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.26%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	82213	5.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	83194	4.61	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	105300	5.645	ug/L 99
3) Chloromethane	1.54	50	109736	5.931	ug/L 97
5) Vinyl chloride	1.62	62	111333	5.859	ug/L 96
6) Bromomethane	1.88	94	69425	6.188	ug/L 98
8) Chloroethane	1.95	64	70319	5.740	ug/L 99
9) Trichlorofluoromethane	2.16	101	147666	5.821	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	84627	5.790	ug/L 93
12) 1,1-Dichloroethene	2.61	96	75346	5.352	ug/L 88
13) Acetone	2.67	43	164347	61.524	ug/L 99
14) Carbon disulfide	2.82	76	234746	5.273	ug/L 100
15) Methyl Acetate	3.00	43	37050	5.566	ug/L 99
16) Methylene chloride	3.08	84	94011	5.550	ug/L 97
17) Methyl tert-butyl Ether	3.43	73	189343	4.997	ug/L 97
18) trans-1,2-Dichloroethene	3.39	96	81344	5.353	ug/L 93
19) 1,1-Dichloroethane	3.92	63	165768	6.033	ug/L 98
21) 2-Butanone	4.78	43	232466	53.393	ug/L 98
22) cis-1,2-Dichloroethene	4.72	96	93145	5.546	ug/L 93

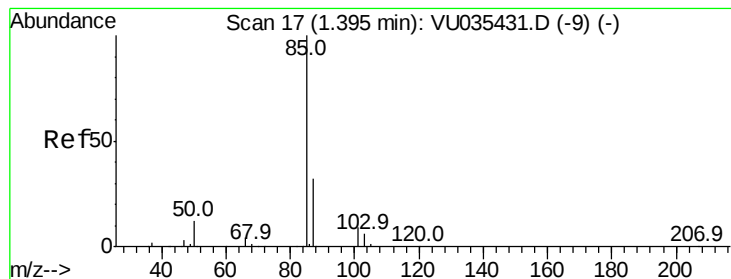
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102319\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 24 14:19:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	39839	5.511	ug/L	89
25) Chloroform	5.14	83	175347	5.816	ug/L	99
27) 1,2-Dichloroethane	5.84	62	105001	5.679	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	139986	5.251	ug/L	97
30) Cyclohexane	5.43	56	127123	4.452	ug/L	97
31) Carbon tetrachloride	5.57	117	121253	5.051	ug/L	99
33) Benzene	5.82	78	359245	5.364	ug/L	100
34) Trichloroethene	6.58	95	90175	5.009	ug/L	94
35) Methylcyclohexane	6.80	83	128890	4.284	ug/L	95
37) 1,2-Dichloropropane	6.84	63	93803	5.518	ug/L	98
38) Bromodichloromethane	7.15	83	120518	5.262	ug/L	97
39) cis-1,3-Dichloropropene	7.65	75	123788	4.350	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	557213	48.553	ug/L	96
42) Toluene	8.01	91	377648	5.109	ug/L	98
44) trans-1,3-Dichloropropene	8.25	75	107079	4.605	ug/L	98
45) 1,1,2-Trichloroethane	8.44	97	66877	5.299	ug/L	97
47) Tetrachloroethene	8.58	164	70783	4.719	ug/L	98
48) 2-Hexanone	8.73	43	387383	48.131	ug/L	98
49) Dibromochloromethane	8.84	129	77636	4.852	ug/L	99
50) 1,2-Dibromoethane	8.96	107	62196	4.930	ug/L	99
51) Chlorobenzene	9.48	112	238263	4.992	ug/L	99
52) Ethylbenzene	9.60	91	380750	4.529	ug/L	99
53) m,p-Xylene	9.72	106	141161	4.447	ug/L	94
54) o-Xylene	10.13	106	139957	4.518	ug/L	99
55) Styrene	10.14	104	234056	4.640	ug/L	97
56) Isopropylbenzene	10.51	105	361515	4.338	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	87300	5.375	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	61384	5.183	ug/L	98
61) Bromoform	10.32	173	46596	5.074	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	163335	4.828	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	156035	4.691	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	154139	4.850	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	10521	4.687	ug/L	90
67) 1,3,5-Trichlorobenzene	13.24	180	82754	3.948	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	48344	3.464	ug/L	100
69) Naphthalene	14.11	128	59786	3.121	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	50406	3.863	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 5.645 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

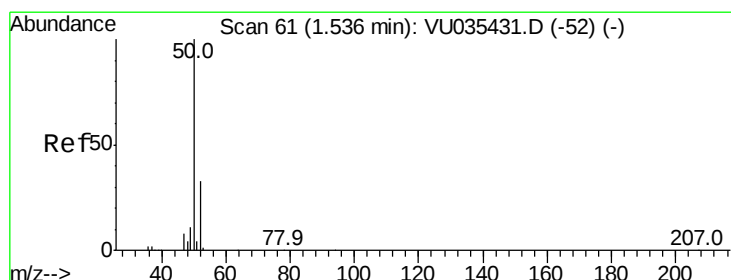
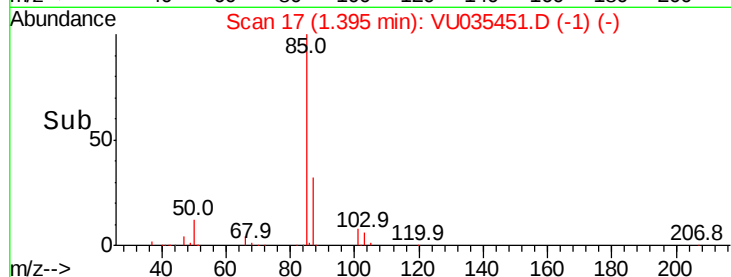
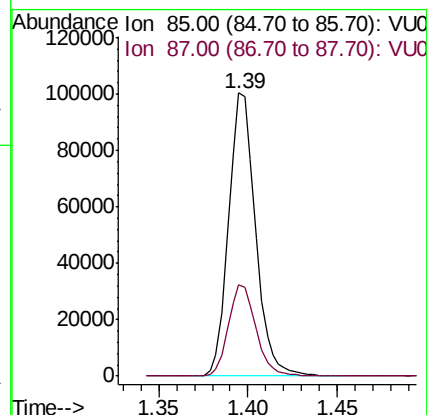
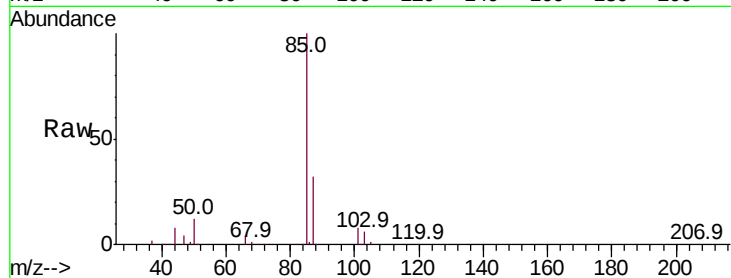
ClientSampled :

Tot Ion: 85 Resp: 105300

Ion Ratio Lower Upper

85 100

87 32.6 25.5 38.3



#3

Chloromethane

Concen: 5.931 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035451.D

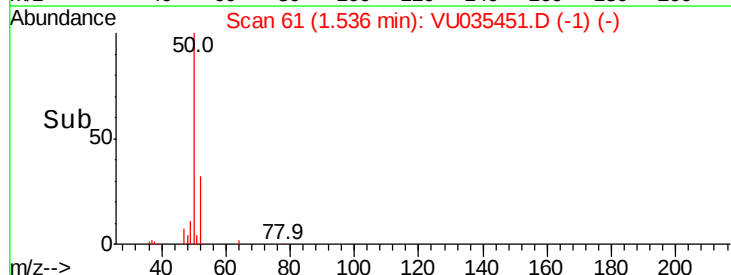
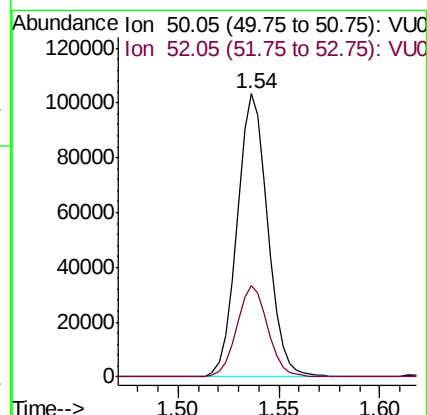
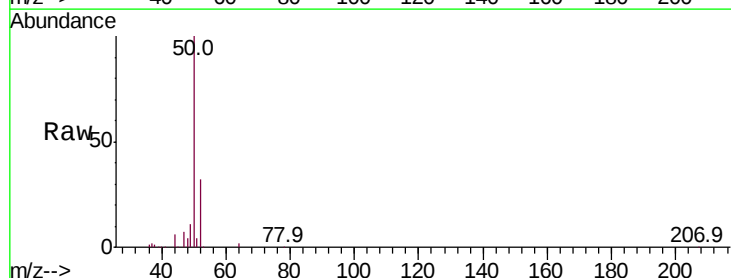
Acq: 24 Oct 2019 10:49

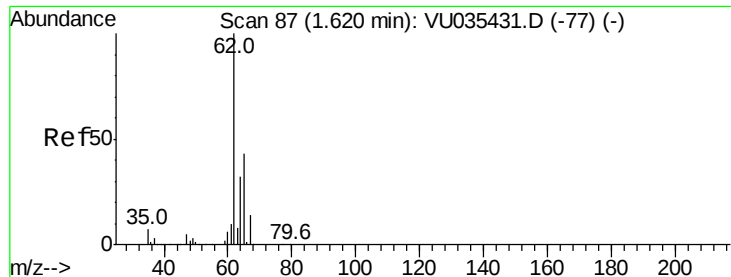
Tgt Ion: 50 Resp: 109736

Ion Ratio Lower Upper

50 100

52 32.1 23.5 43.7





#5

Vinyl chloride

Concen: 5.859 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

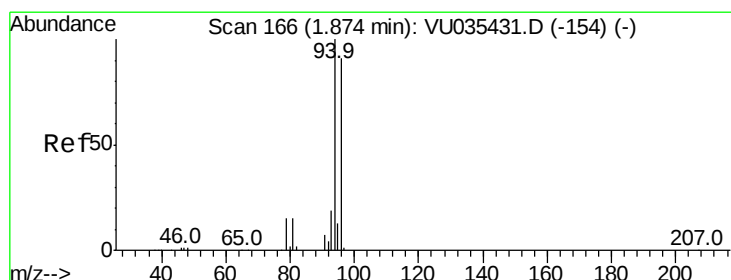
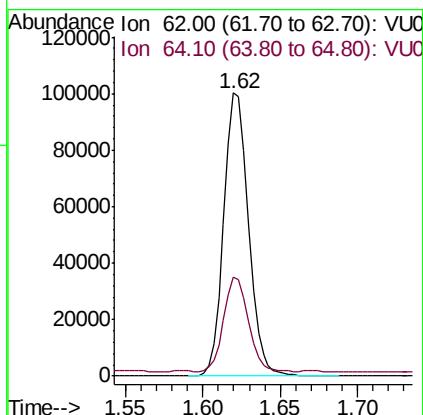
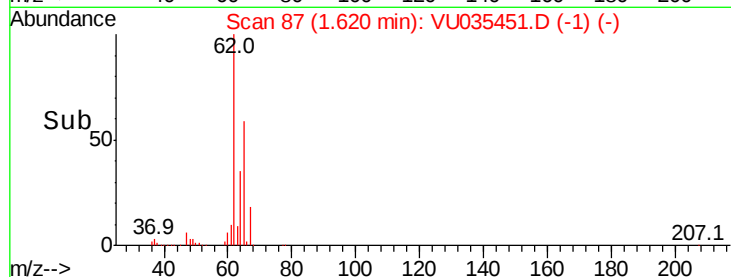
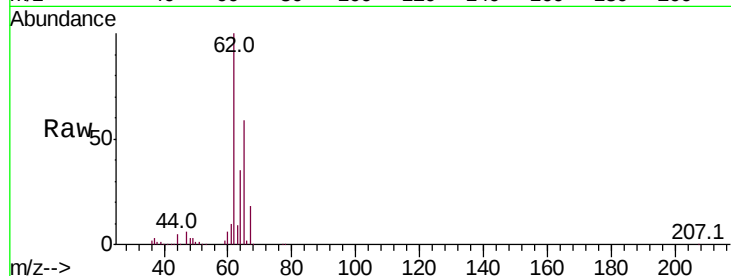
ClientSampleId :

Tot Ion: 62 Resp: 111333

Ion Ratio Lower Upper

62 100

64 34.8 22.9 42.5



#6

Bromomethane

Concen: 6.188 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035451.D

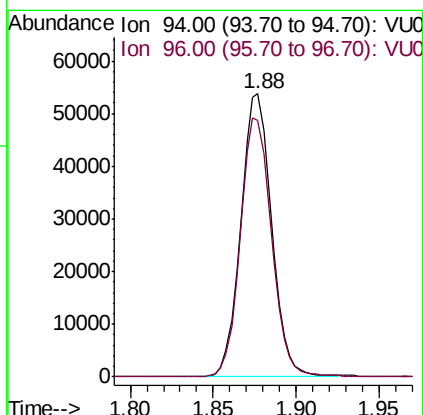
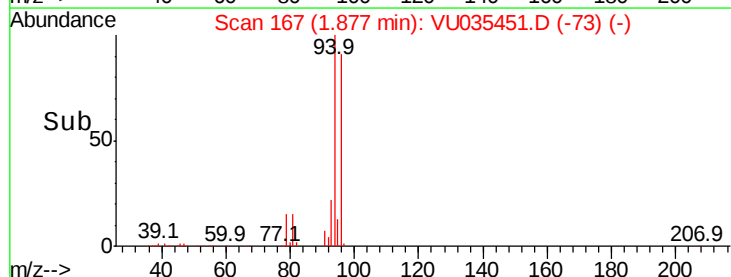
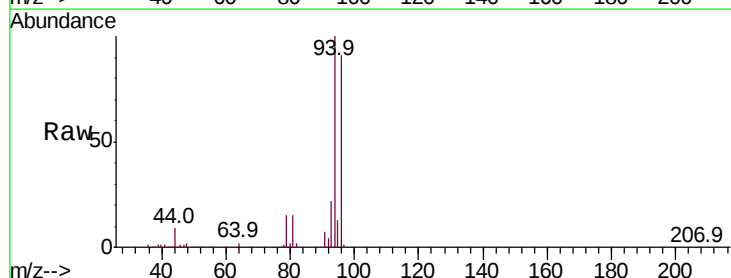
Acq: 24 Oct 2019 10:49

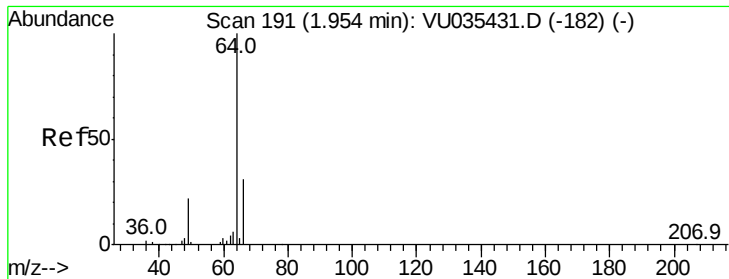
Tgt Ion: 94 Resp: 69425

Ion Ratio Lower Upper

94 100

96 90.8 64.6 120.0





#8

Chloroethane

Concen: 5.740 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

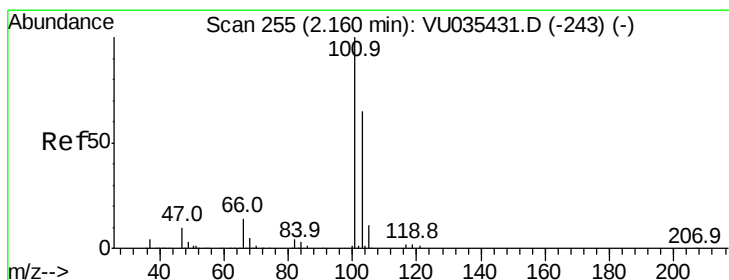
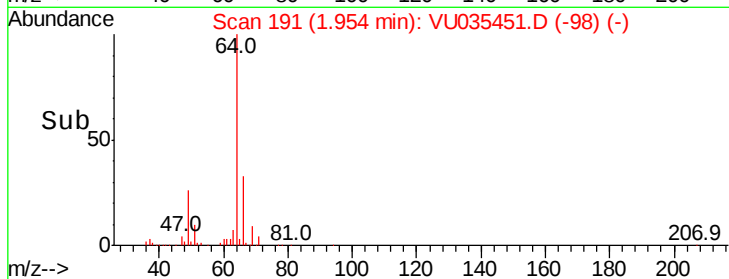
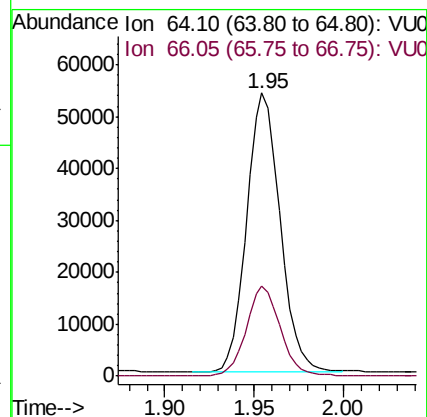
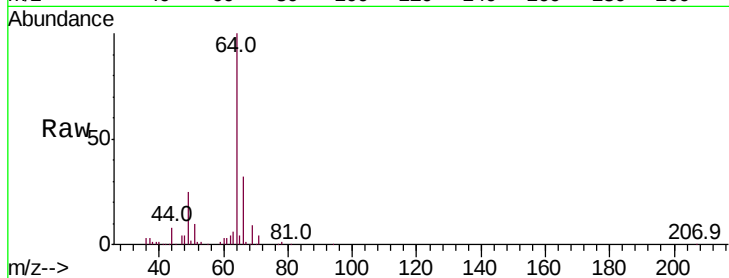
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 70319

Ion Ratio Lower Upper

64 100

66 31.7 22.7 42.1



#9

Trichlorofluoromethane

Concen: 5.821 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU035451.D

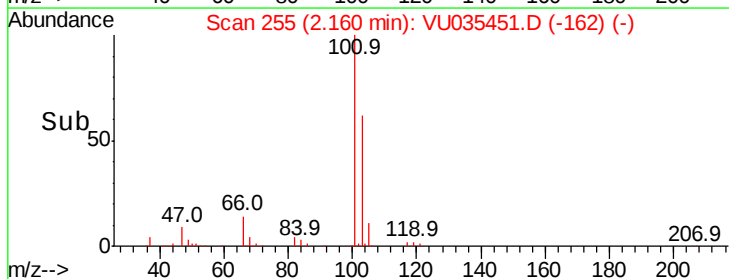
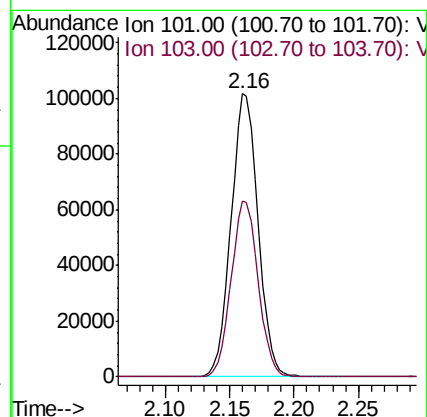
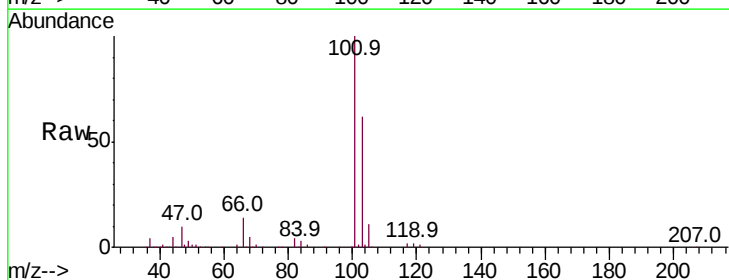
Acq: 24 Oct 2019 10:49

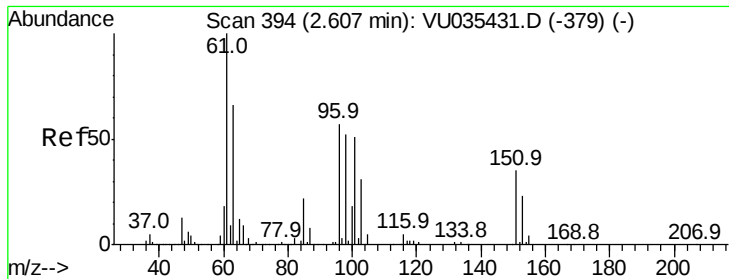
Tgt Ion: 101 Resp: 147666

Ion Ratio Lower Upper

101 100

103 62.3 51.9 77.9





#10

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

Concen: 5.790 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

ClientSampled :

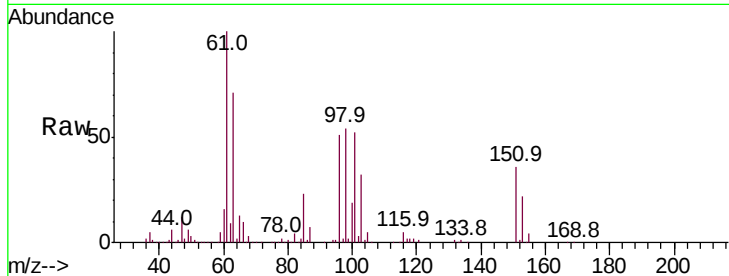
Tot Ion:101 Resp: 84627

Ion Ratio Lower Upper

101 100

85 43.9 33.9 50.9

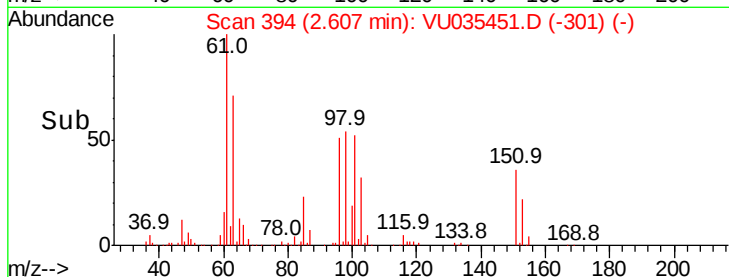
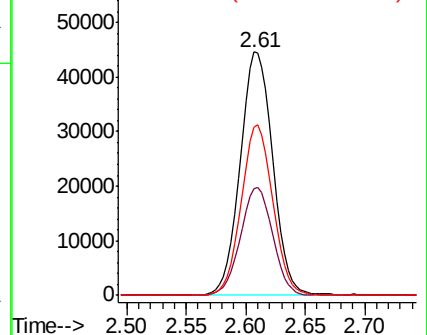
151 68.1 61.0 91.4



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: 5.352 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

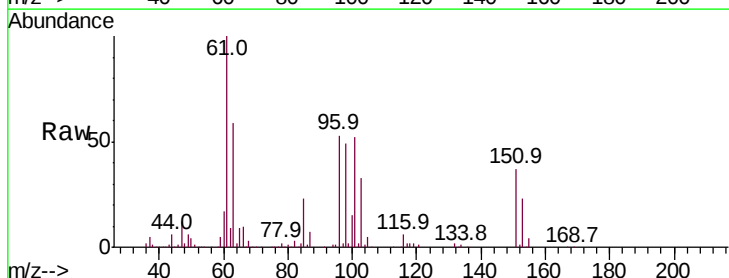
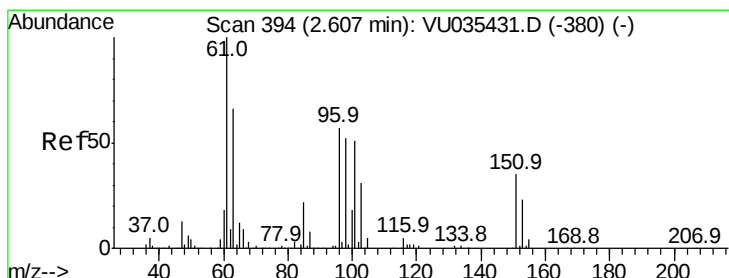
Tgt Ion: 96 Resp: 75346

Ion Ratio Lower Upper

96 100

61 189.9 120.6 224.0

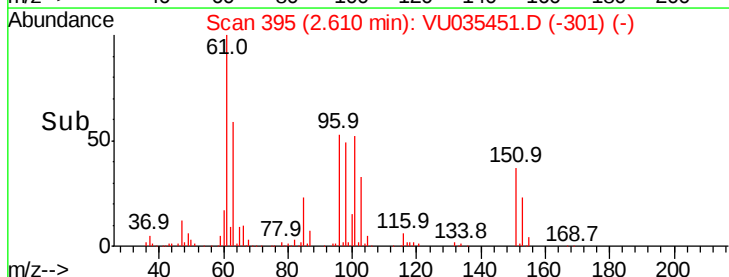
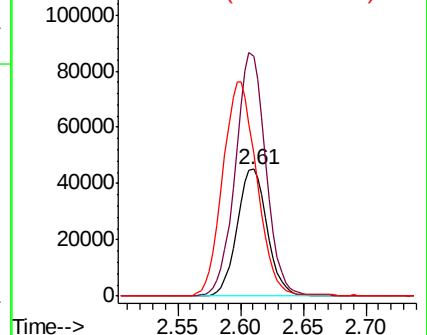
63 112.3 86.8 161.2

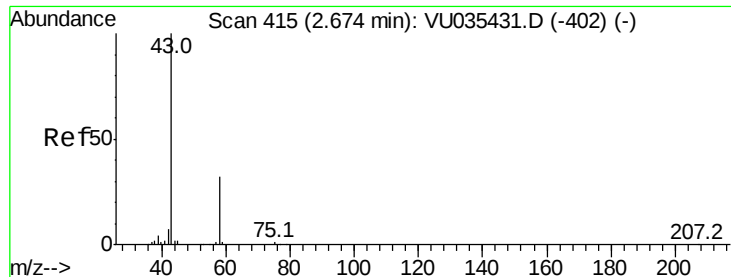


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 61.524 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.01 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

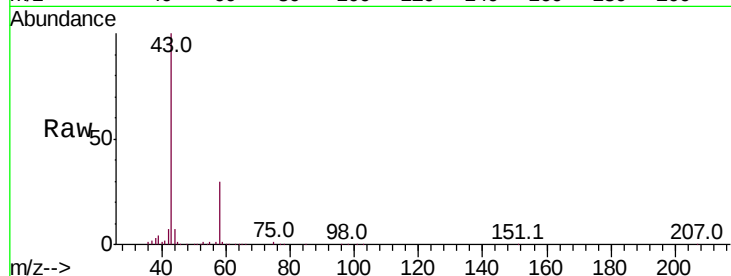
ClientSampleId :

Tot Ion: 43 Resp: 164347

Ion Ratio Lower Upper

43 100

58 30.6 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035431.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU035431.D (-402) (-)

2.67

100000

80000

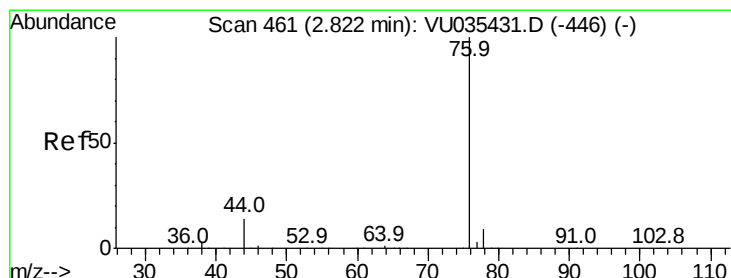
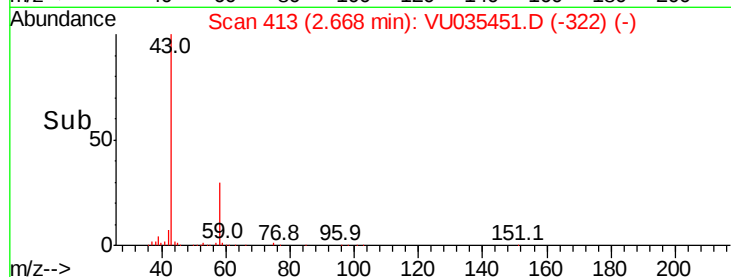
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 5.273 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035451.D

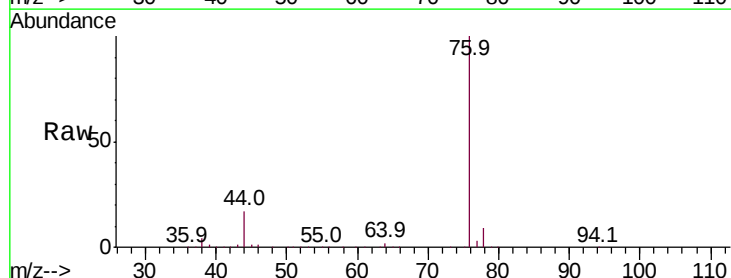
Acq: 24 Oct 2019 10:49

Tgt Ion: 76 Resp: 234746

Ion Ratio Lower Upper

76 100

78 9.5 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU035431.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU035431.D (-446) (-)

2.82

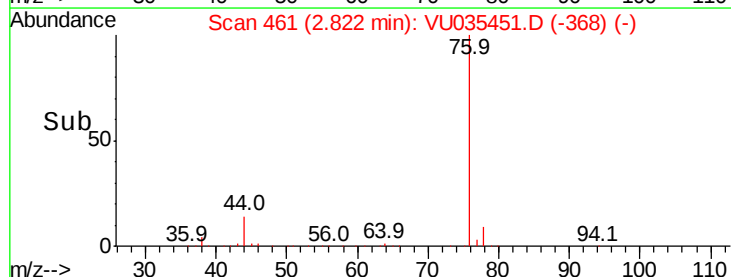
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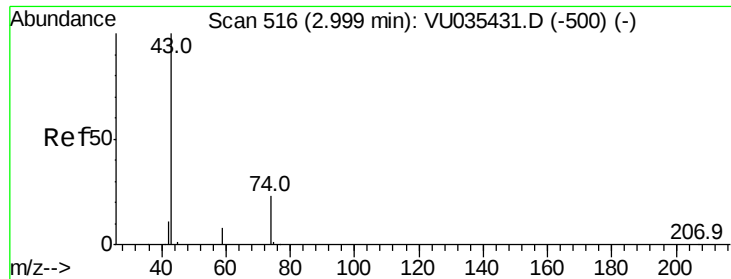
100000

50000

0

Time-->





#15

Methvl Acetate

Concen: 5.566 ug/L

RT: 3.00 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

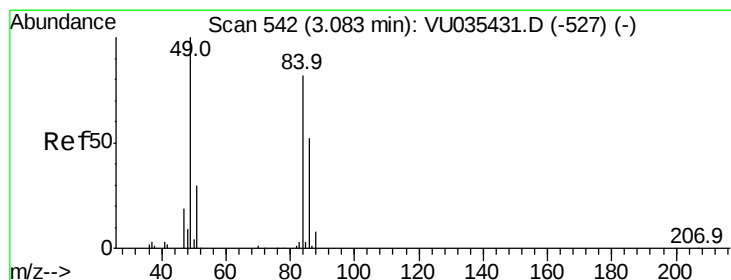
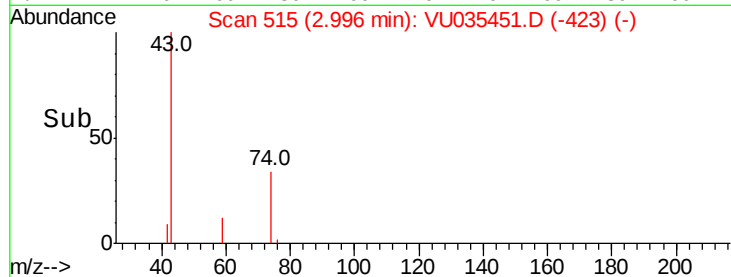
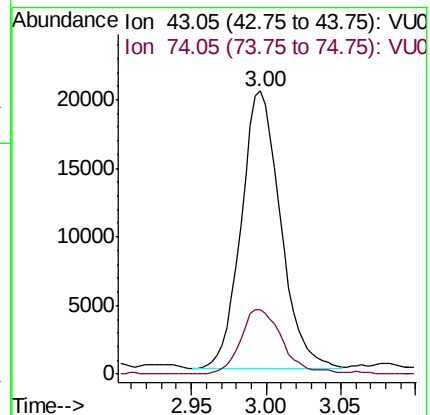
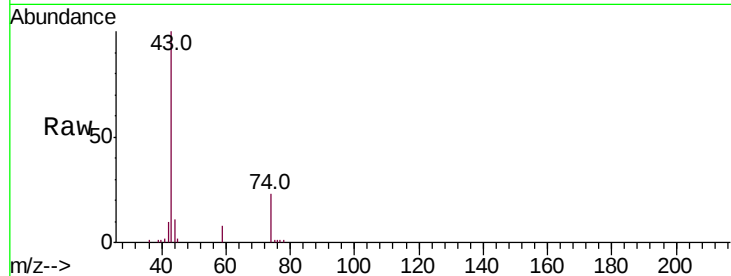
ClientSampled :

Tot Ion: 43 Resp: 37050

Ion Ratio Lower Upper

43 100

74 24.8 20.3 30.5



#16

Methylene chloride

Concen: 5.550 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

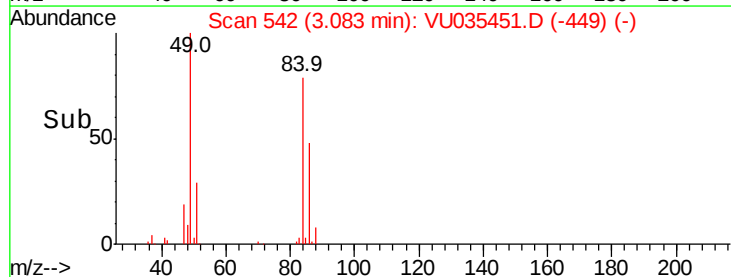
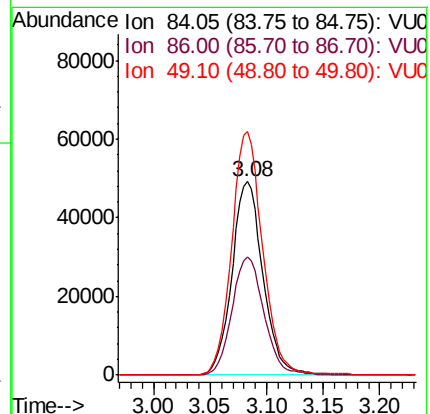
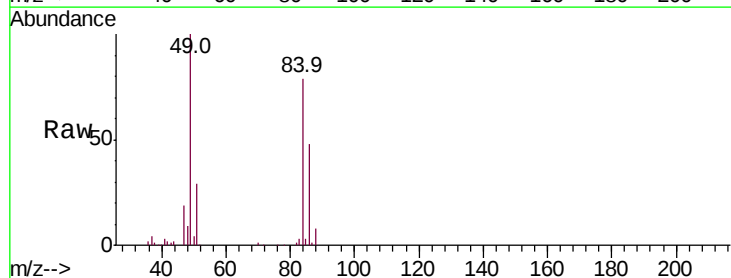
Tgt Ion: 84 Resp: 94011

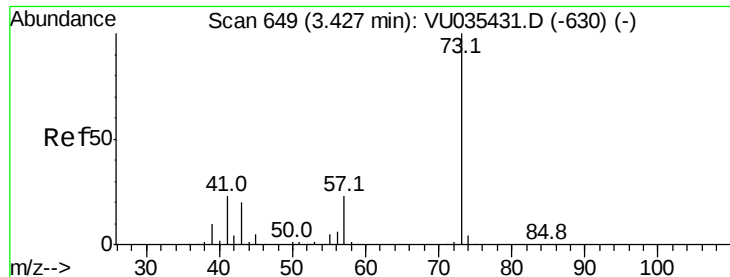
Ion Ratio Lower Upper

84 100

86 61.1 45.4 84.2

49 126.0 86.8 161.2

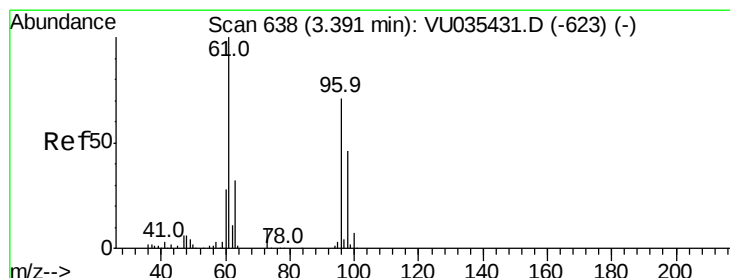
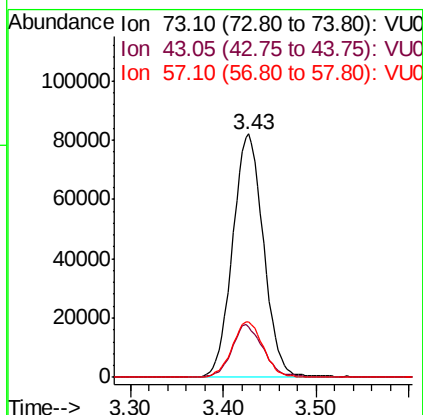
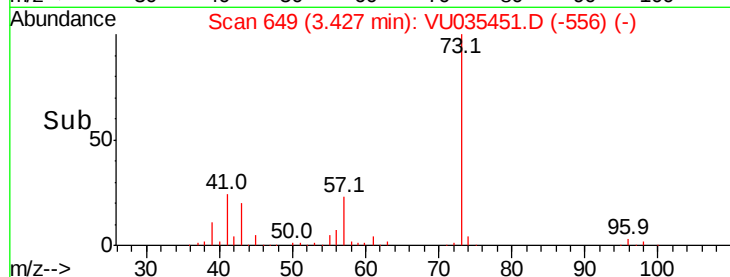
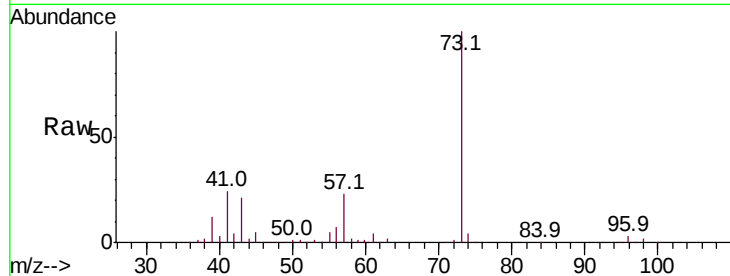




#17
Methvl tert-butvl Ether
Concen: 4.997 ug/L
RT: 3.43 min Scan# 649
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

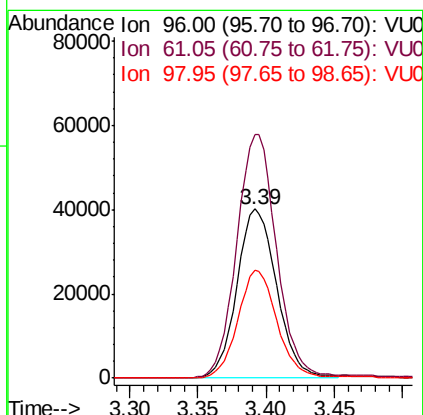
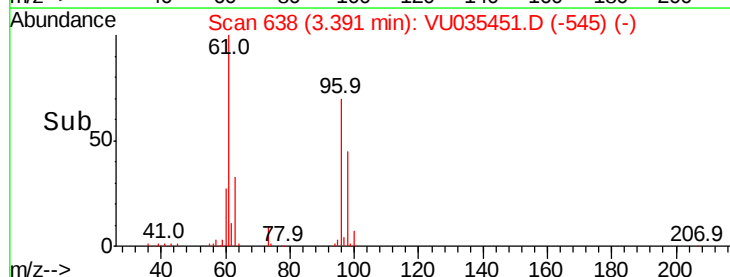
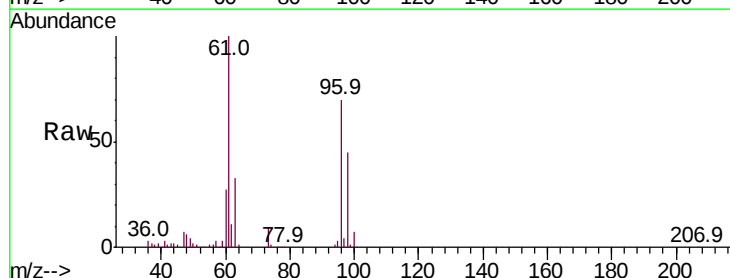
Instrument :
MSVOA_U
ClientSampled :

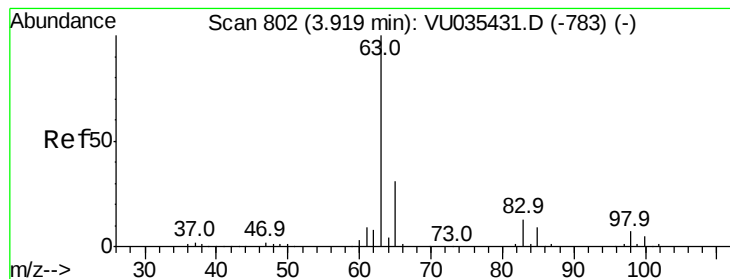
Tot Ion: 73 Resp: 189343
Ion Ratio Lower Upper
73 100
43 21.5 16.0 24.0
57 23.0 17.4 26.2



#18
trans-1,2-Dichloroethene
Concen: 5.353 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Tgt Ion: 96 Resp: 81344
Ion Ratio Lower Upper
96 100
61 143.8 93.0 172.6
98 64.1 43.7 81.1





#19

1,1-Dichloroethane

Concen: 6.033 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

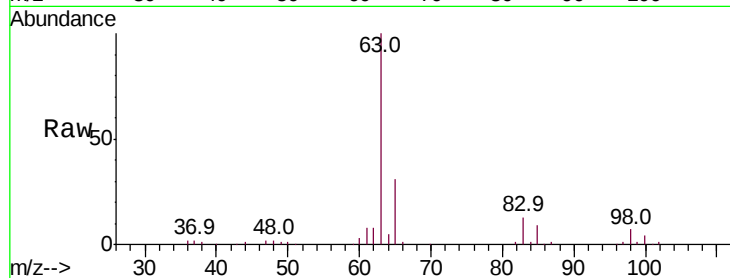
Tot Ion: 63 Resp: 165768

Ion Ratio Lower Upper

63 100

65 30.8 22.4 41.6

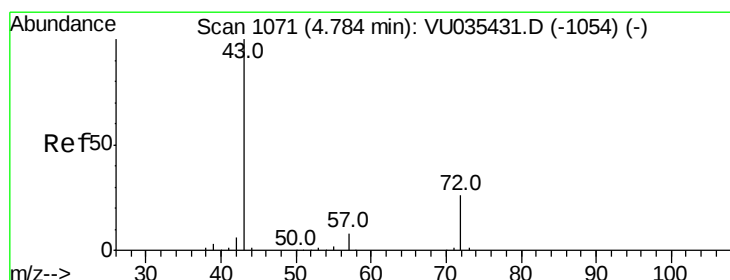
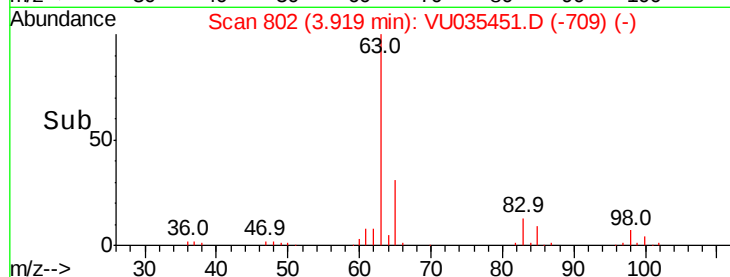
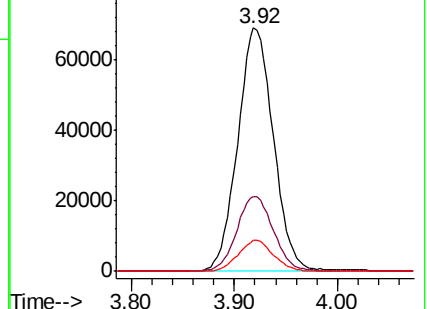
83 12.6 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU035451.D (-783) (-)

Ion 65.10 (64.80 to 65.80): VU035451.D (-783) (-)

Ion 83.05 (82.75 to 83.75): VU035451.D (-783) (-)



#21

2-Butanone

Concen: 53.393 ug/L

RT: 4.78 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VU035451.D

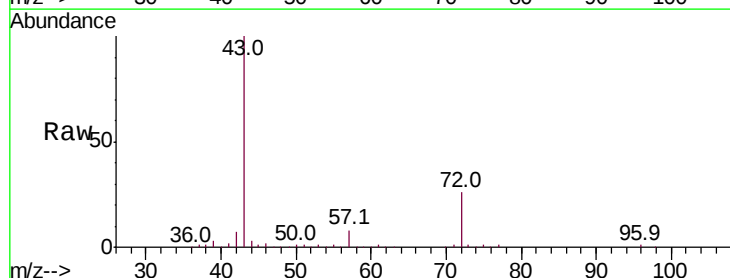
Acq: 24 Oct 2019 10:49

Tgt Ion: 43 Resp: 232466

Ion Ratio Lower Upper

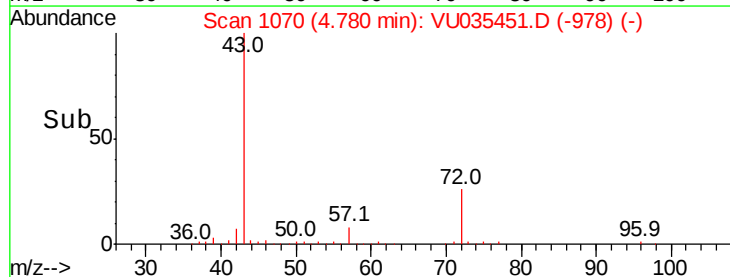
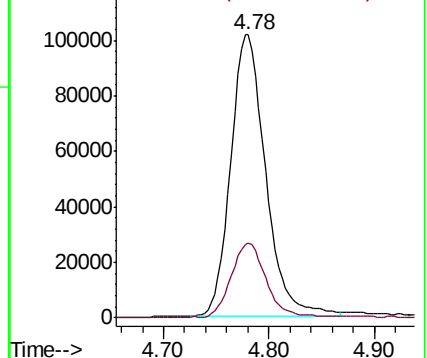
43 100

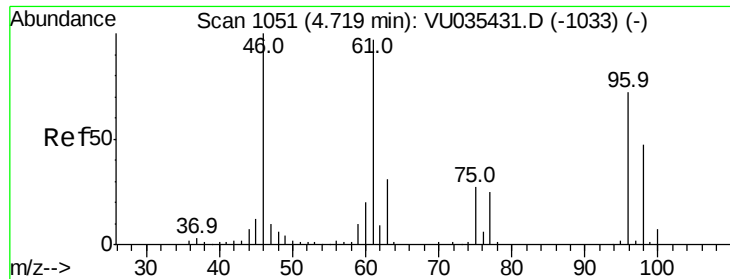
72 26.1 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VU035451.D (-978) (-)

Ion 72.10 (71.80 to 72.80): VU035451.D (-978) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.546 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :

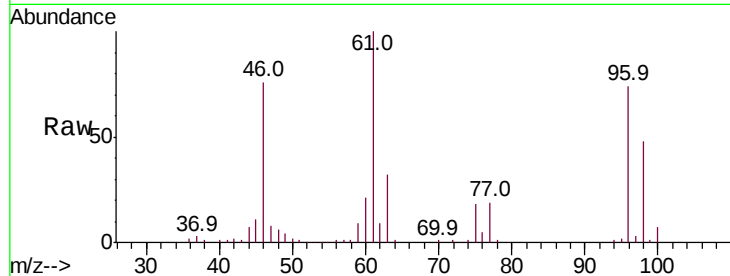
Tot Ion: 96 Resp: 93145

Ion Ratio Lower Upper

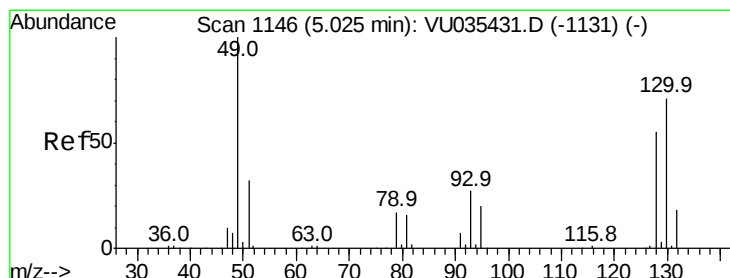
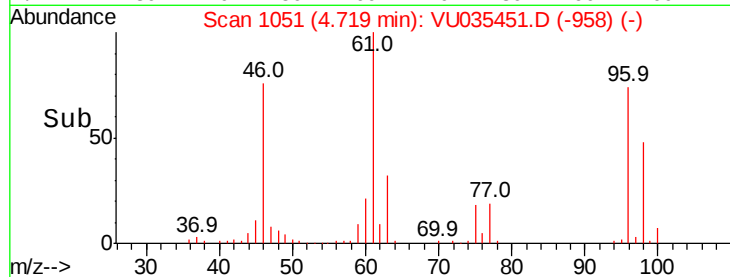
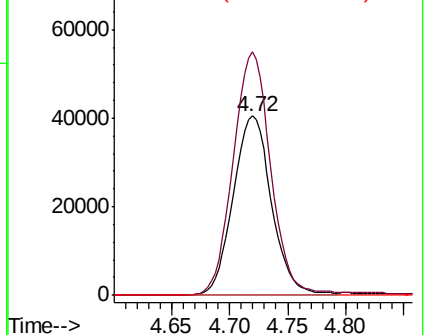
96 100

61 135.9 89.7 166.5

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.511 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Tgt Ion: 128 Resp: 39839

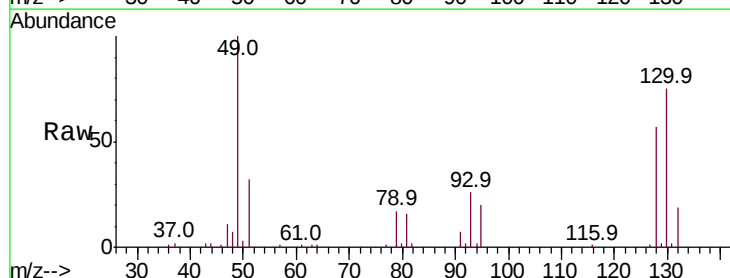
Ion Ratio Lower Upper

128 100

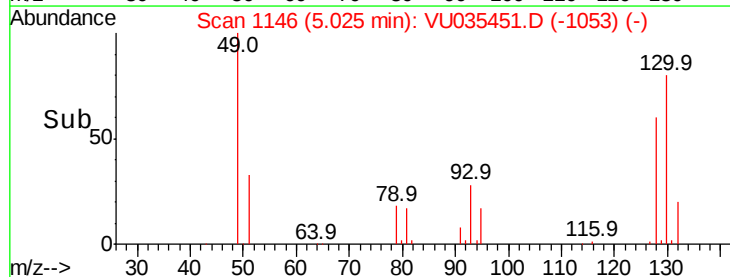
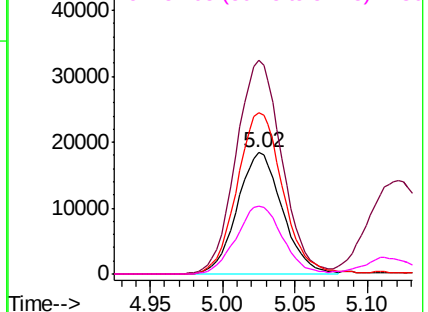
49 176.1 109.3 203.1

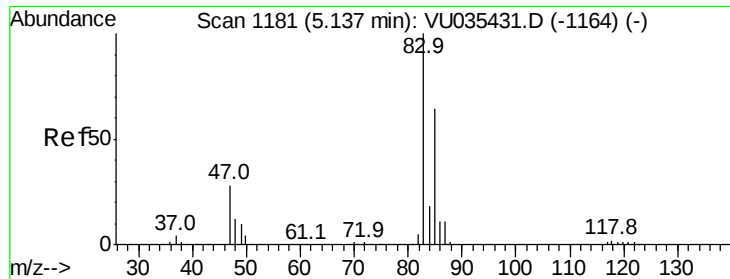
130 132.7 88.7 164.7

51 55.8 39.2 58.8



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

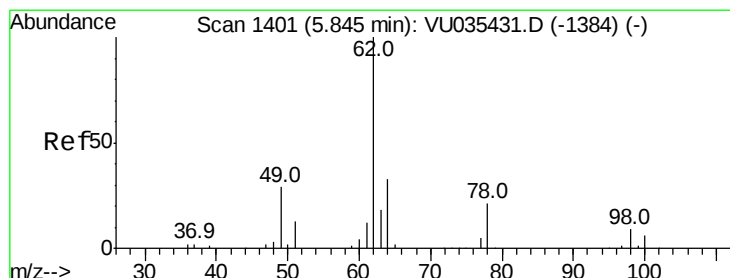
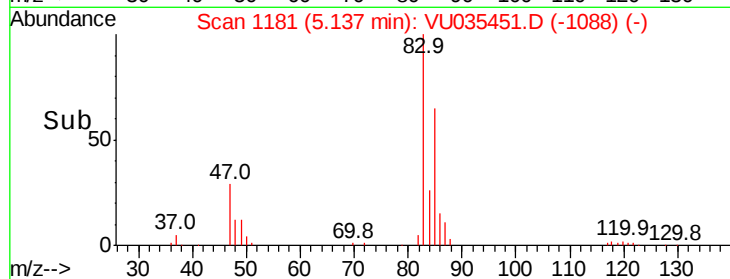
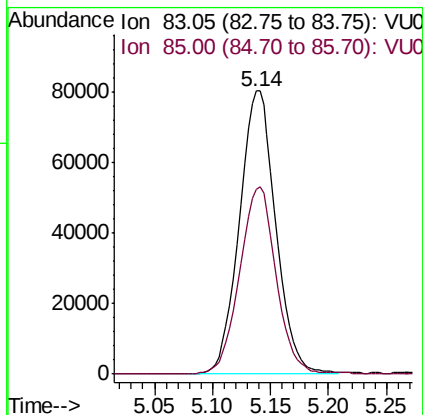
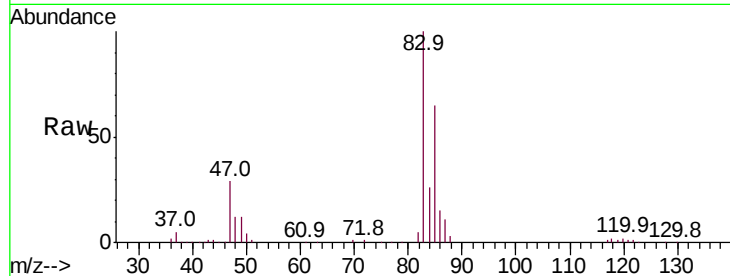




#25
Chloroform
Concen: 5.816 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

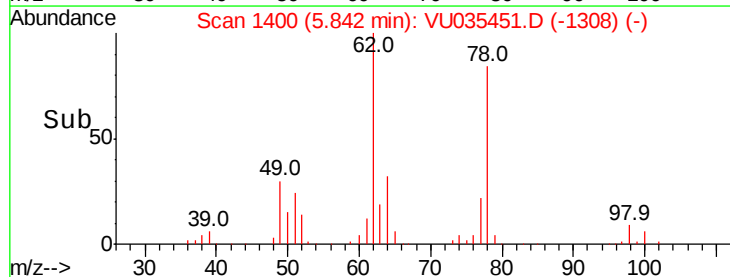
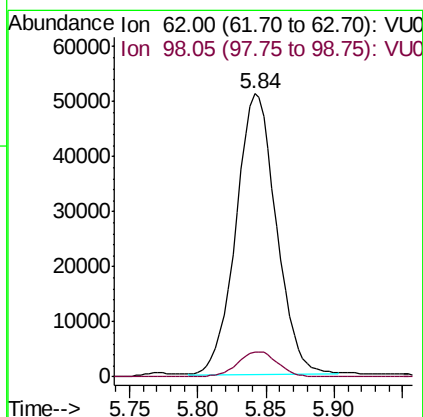
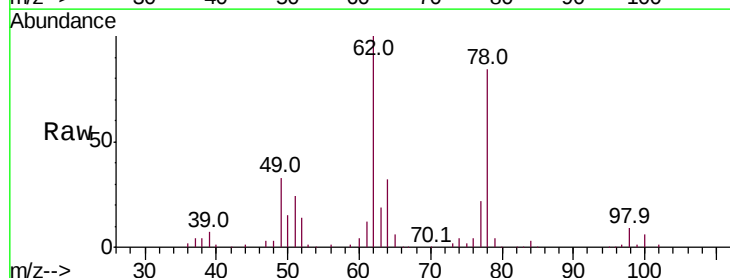
Instrument :
MSVOA_U
ClientSampleId :

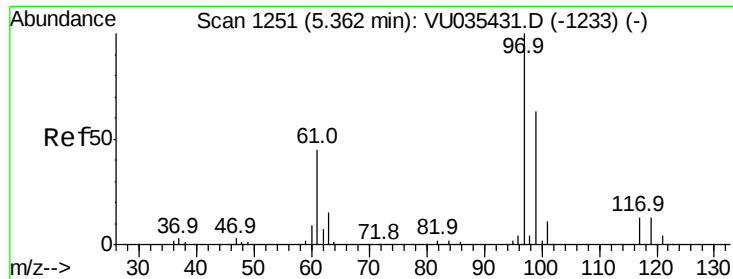
Tot Ion: 83 Resp: 175347
Ion Ratio Lower Upper
83 100
85 65.2 45.1 83.9



#27
1,2-Dichloroethane
Concen: 5.679 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Tgt Ion: 62 Resp: 105001
Ion Ratio Lower Upper
62 100
98 8.6 7.8 11.6

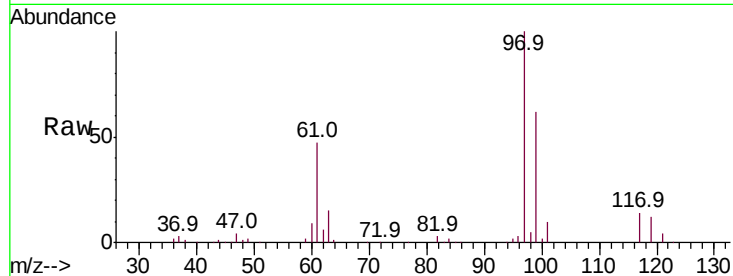




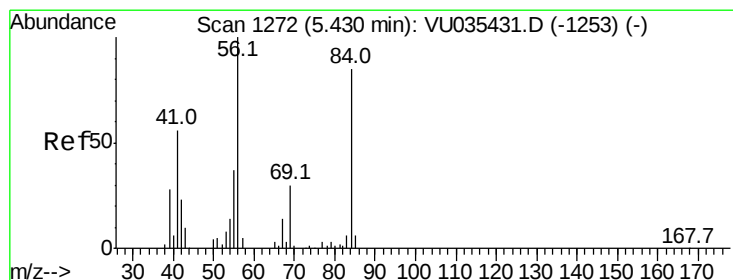
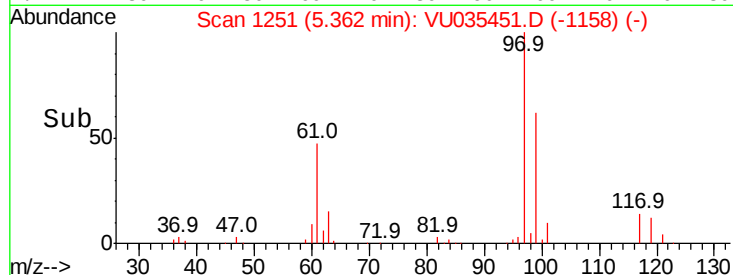
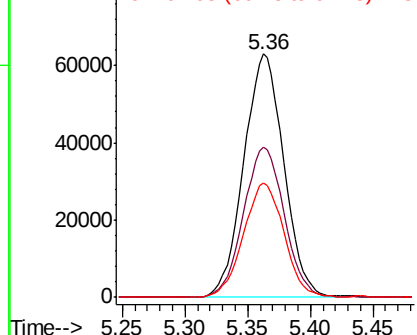
#29
1,1,1-Trichloroethane
Concen: 5.251 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 139986
Ion Ratio Lower Upper
97 100
99 62.7 52.6 79.0
61 47.6 37.0 55.4

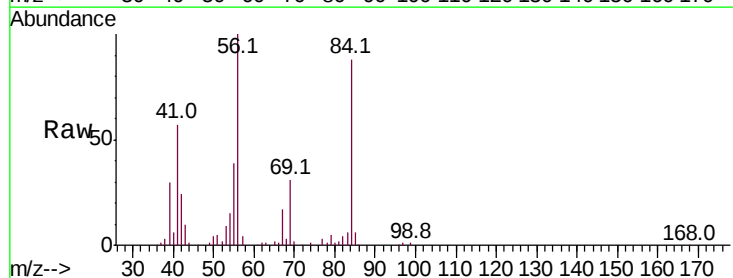


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

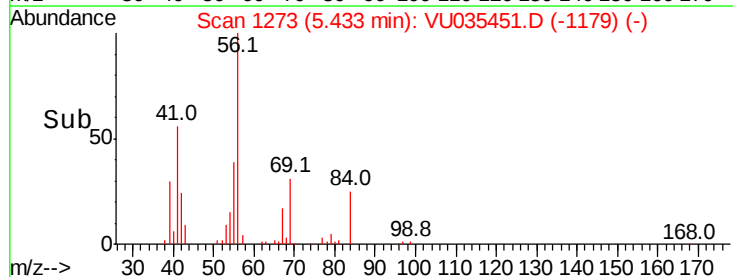
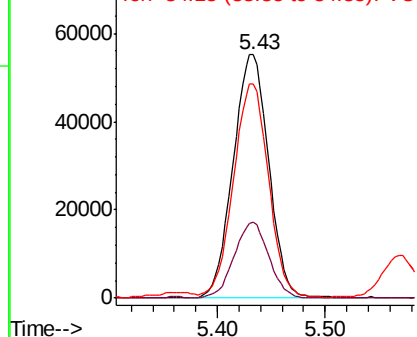


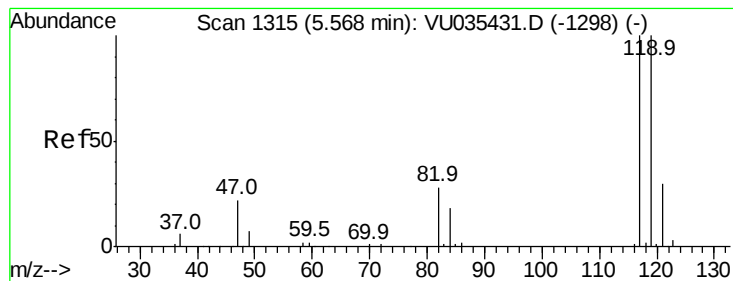
#30
Cyclohexane
Concen: 4.452 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Tgt Ion: 56 Resp: 127123
Ion Ratio Lower Upper
56 100
69 30.2 24.6 36.8
84 85.5 71.5 107.3



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: 5.051 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

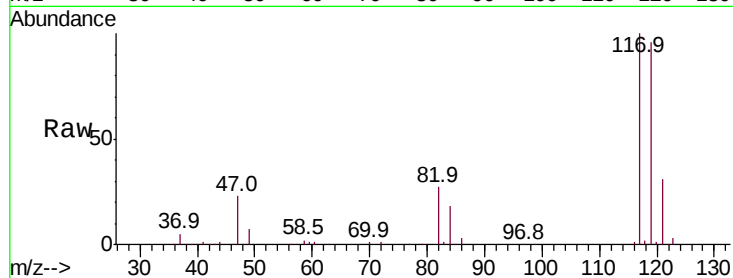
ClientSampleId :

Tot Ion:117 Resp: 121253

Ion Ratio Lower Upper

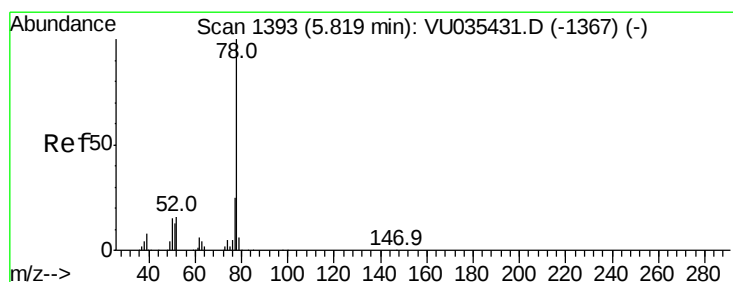
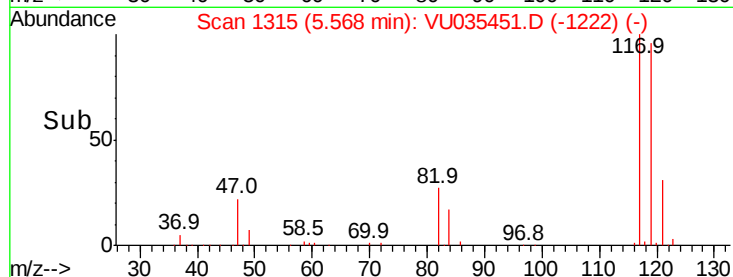
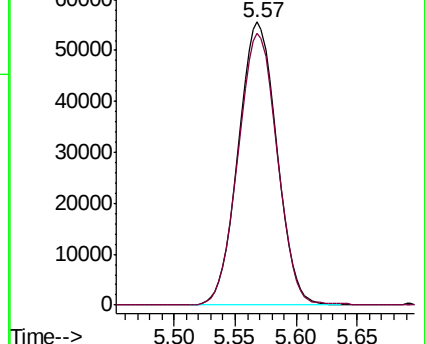
117 100

119 97.6 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.364 ug/L

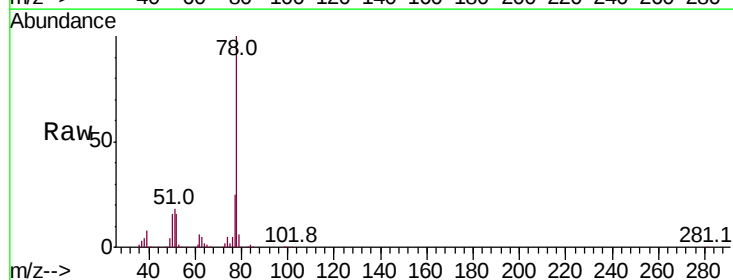
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

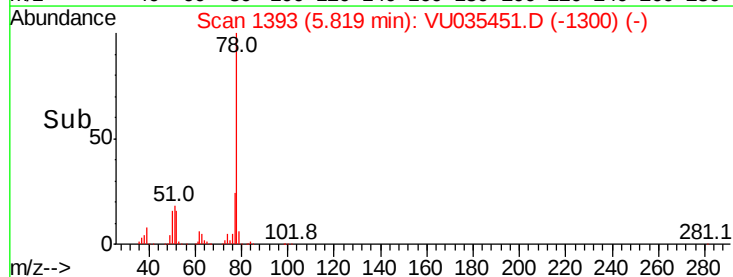
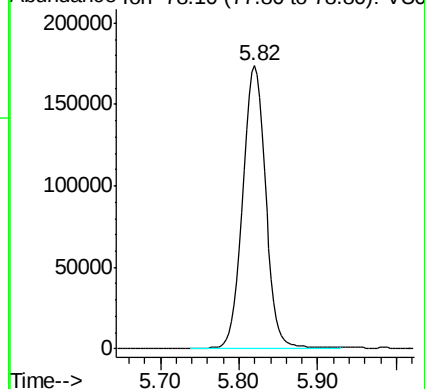
Lab File: VU035451.D

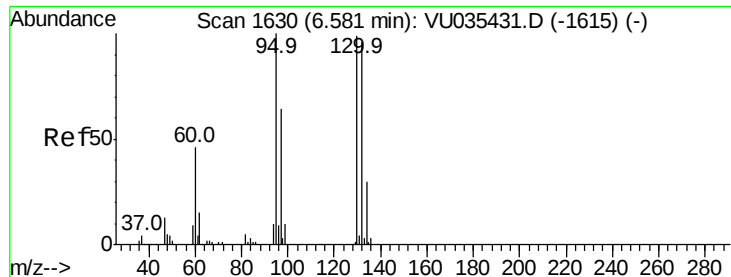
Acq: 24 Oct 2019 10:49

Tgt Ion: 78 Resp: 359245



Abundance Ion 78.10 (77.80 to 78.80): VU0

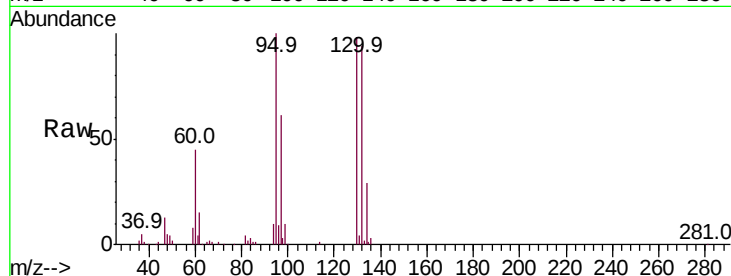




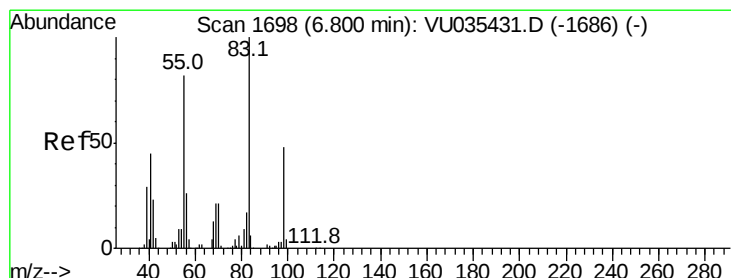
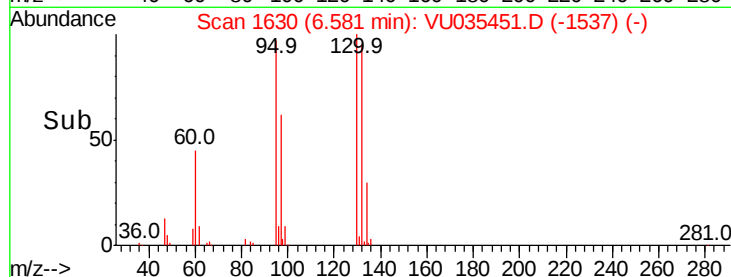
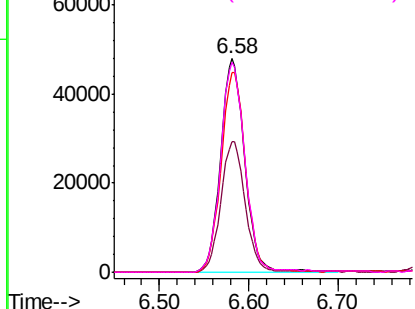
#34
 Trichloroethene
 Concen: 5.009 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 90175
 Ion Ratio Lower Upper
 95 100
 97 61.1 46.6 86.6
 132 93.6 68.7 127.7
 130 98.1 73.9 137.3

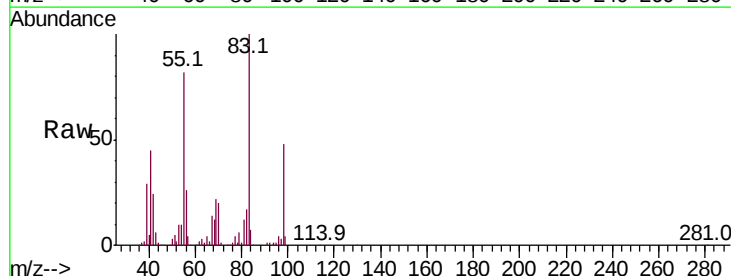


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

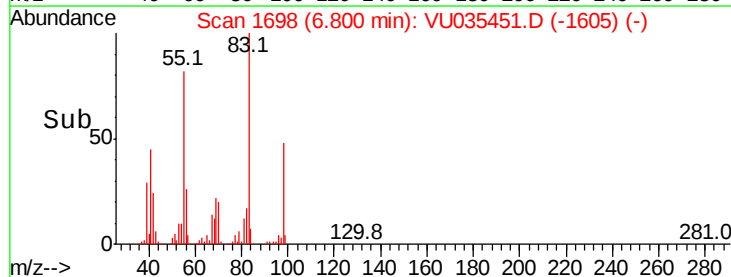
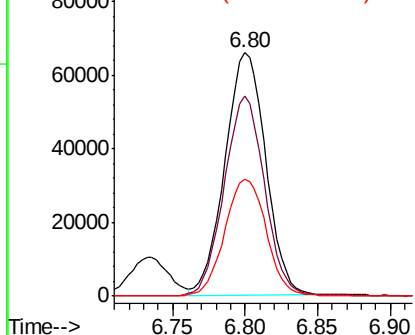


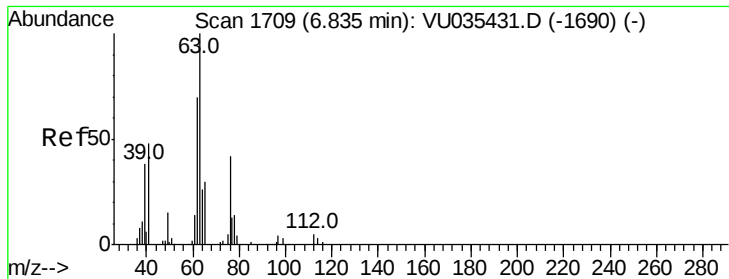
#35
 Methylcyclohexane
 Concen: 4.284 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Tgt Ion: 83 Resp: 128890
 Ion Ratio Lower Upper
 83 100
 55 81.6 60.4 90.6
 98 49.0 39.5 59.3



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.518 ug/L

RT: 6.84 min Scan# 1709

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

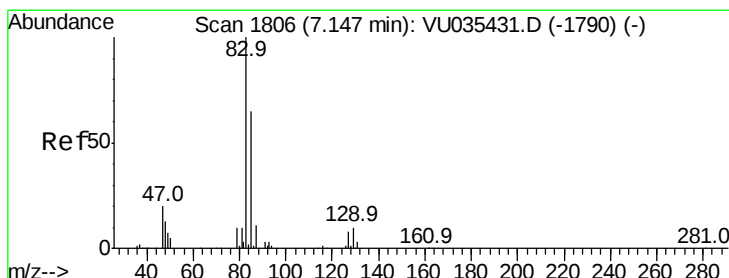
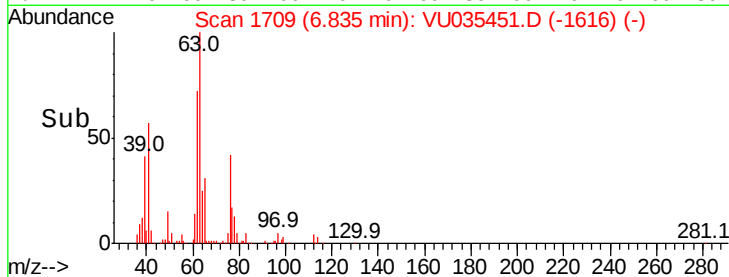
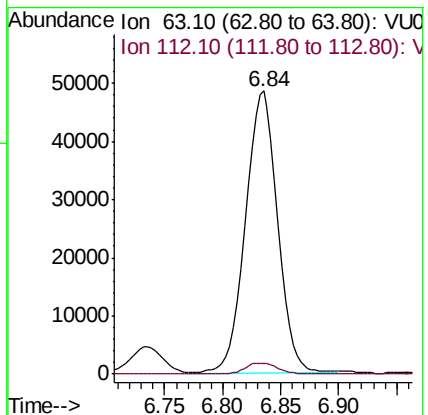
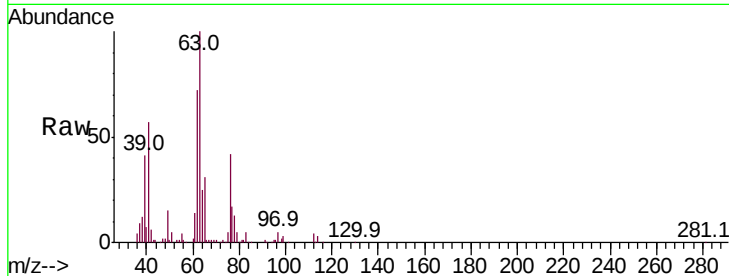
ClientSampled :

Tot Ion: 63 Resp: 93803

Ion Ratio Lower Upper

63 100

112 4.1 3.7 5.5



#38

Bromodichloromethane

Concen: 5.262 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

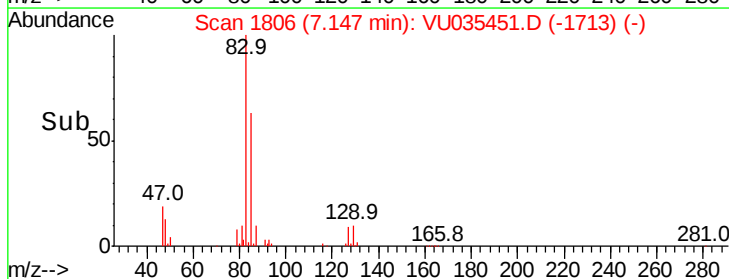
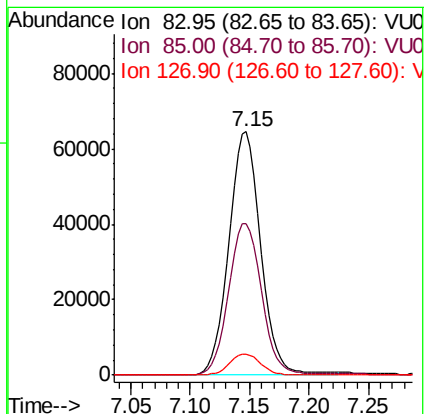
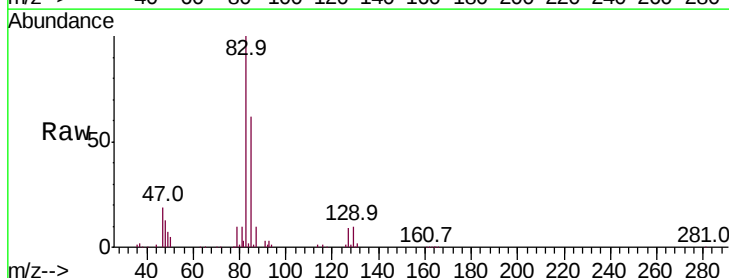
Tgt Ion: 83 Resp: 120518

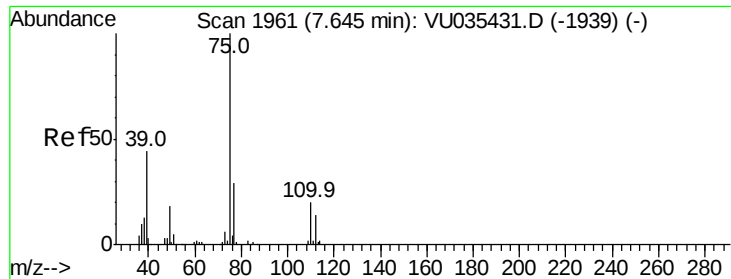
Ion Ratio Lower Upper

83 100

85 62.4 45.6 84.8

127 8.7 6.9 10.3

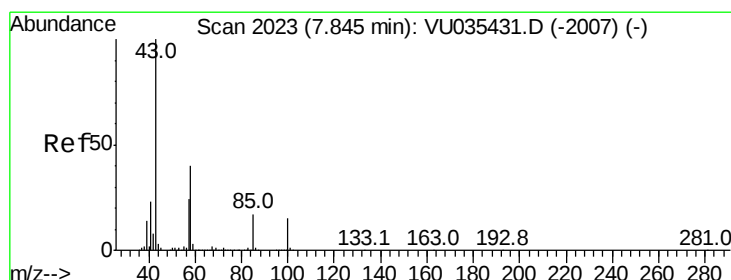
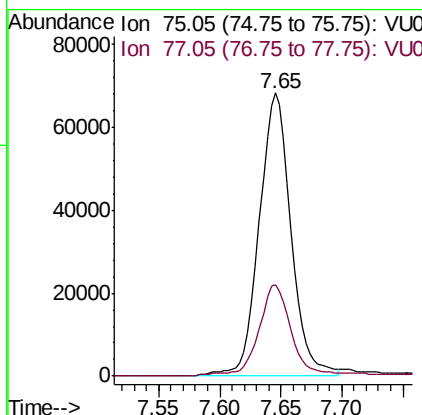
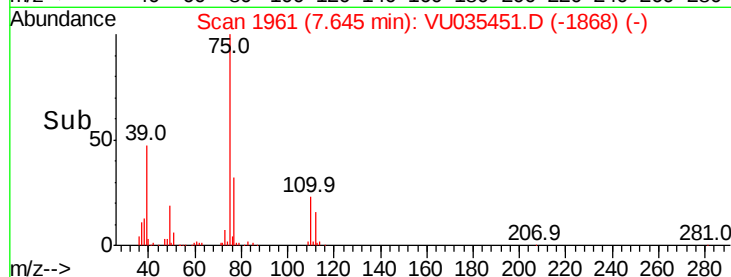
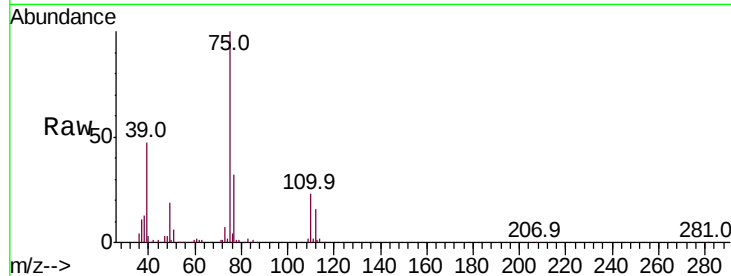




#39
 cis-1,3-Dichloropropene
 Concen: 4.350 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

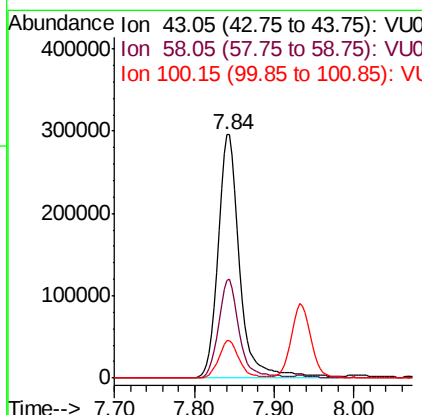
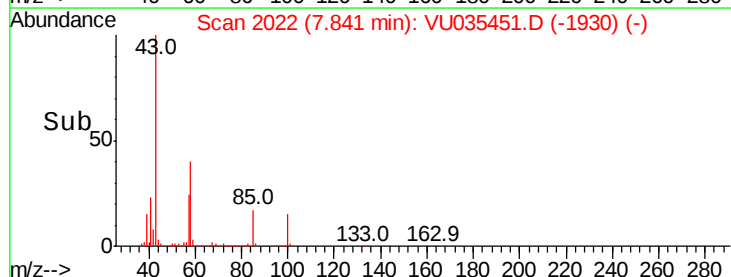
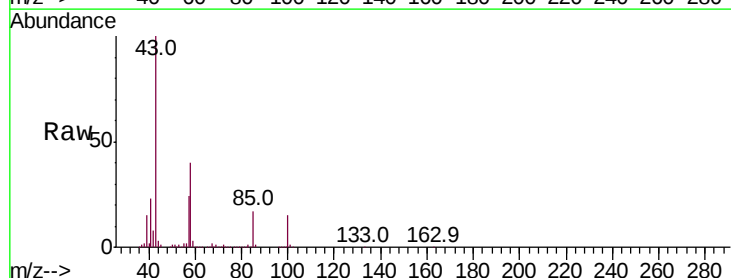
Instrument :
 MSVOA_U
 ClientSampleId :

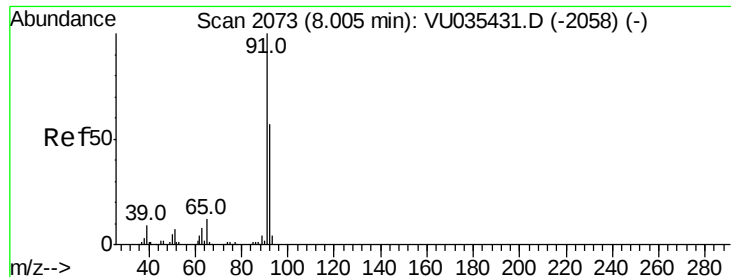
Tot Ion: 75 Resp: 123788
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 48.553 ug/L
 RT: 7.84 min Scan# 2022
 Delta R.T. -0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Tgt Ion: 43 Resp: 557213
 Ion Ratio Lower Upper
 43 100
 58 38.5 32.3 48.5
 100 14.5 13.4 20.2





#42

Toluene

Concen: 5.109 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

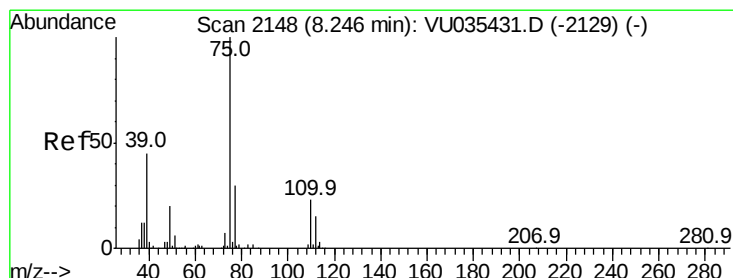
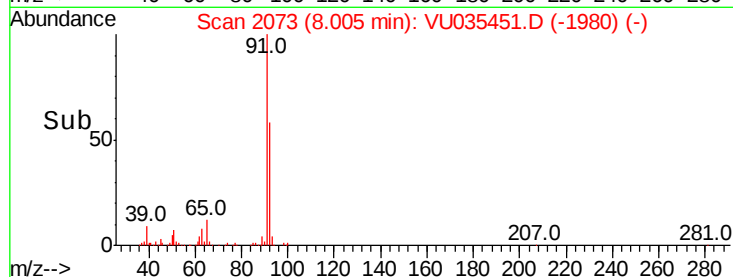
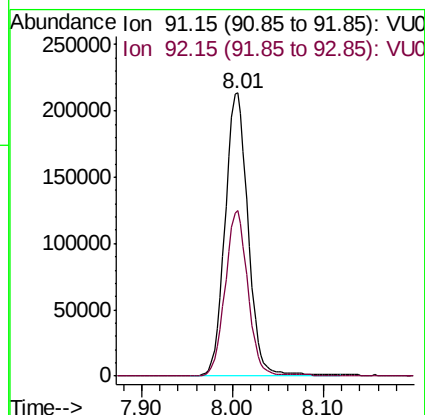
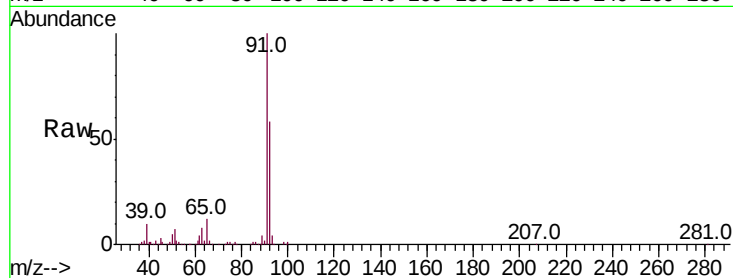
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 377648

Ion Ratio Lower Upper

91 100

92 58.4 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 4.605 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035451.D

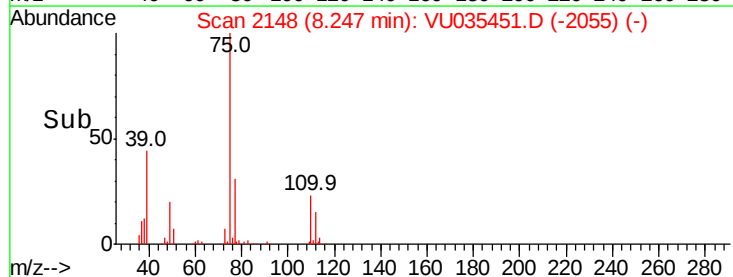
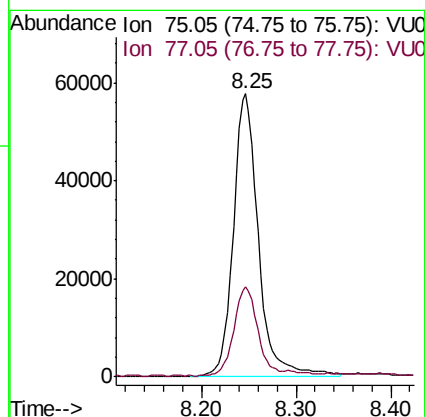
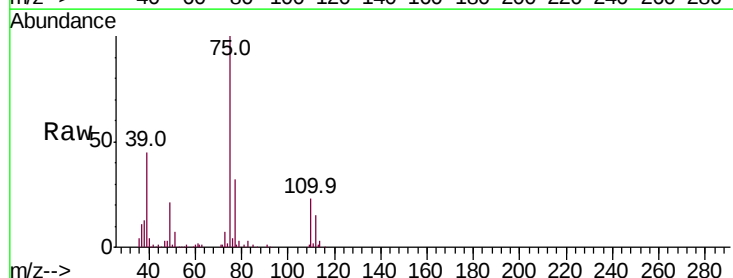
Acq: 24 Oct 2019 10:49

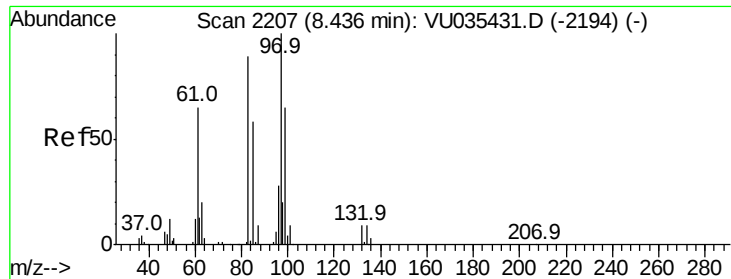
Tgt Ion: 75 Resp: 107079

Ion Ratio Lower Upper

75 100

77 31.8 23.0 42.8

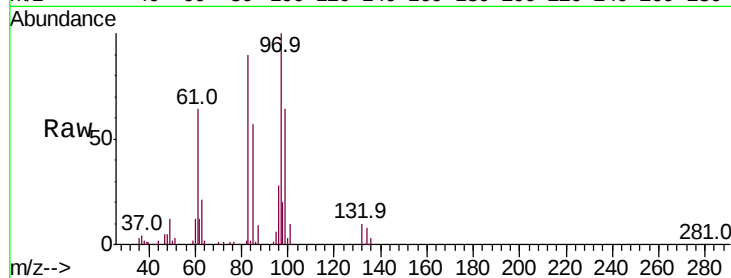




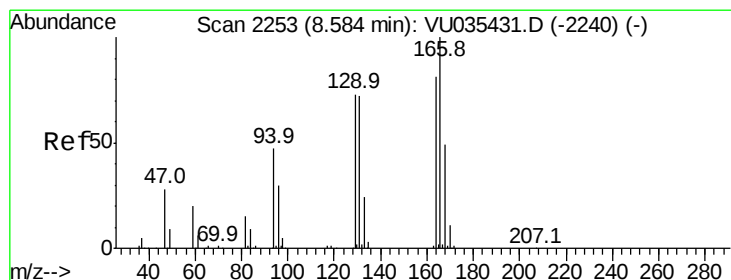
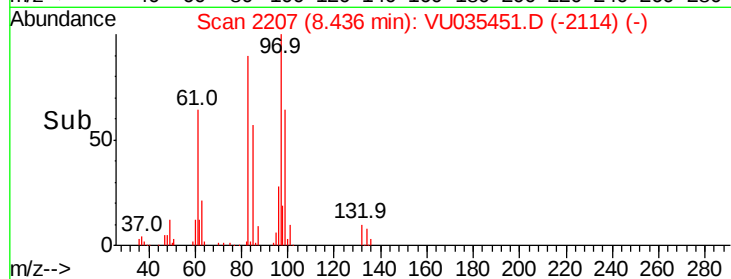
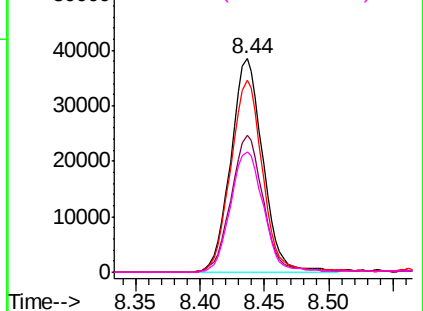
#45
 1,1,2-Trichloroethane
 Concen: 5.299 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	66877
Ion	Ratio	Lower	Upper
97	100		
99	63.9	42.9	79.7
83	89.8	60.4	112.2
85	56.6	38.4	71.2

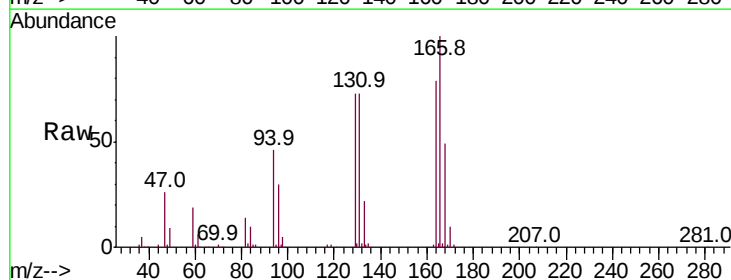


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

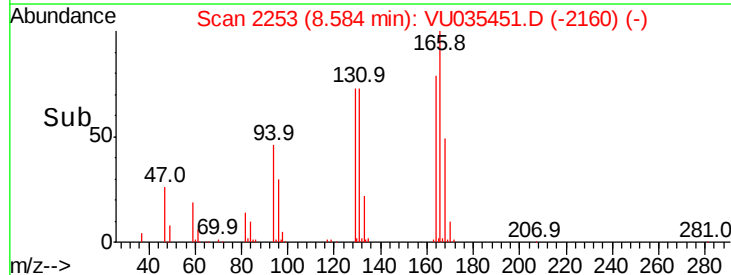
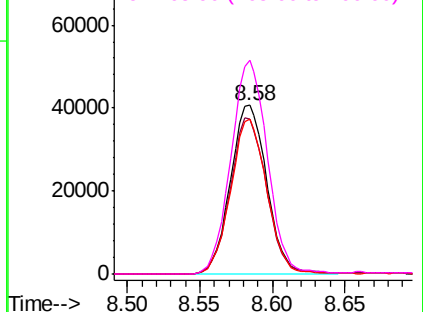


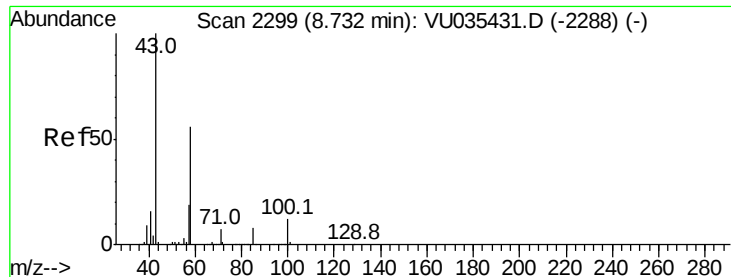
#47
 Tetrachloroethene
 Concen: 4.719 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Tgt Ion:	164	Resp:	70783
Ion	Ratio	Lower	Upper
164	100		
129	92.0	65.2	121.0
131	91.7	62.9	116.9
166	126.4	91.5	169.9



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

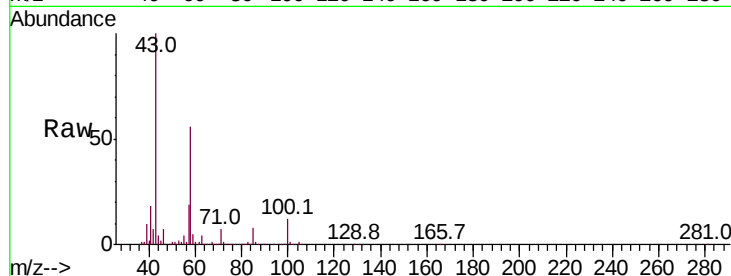




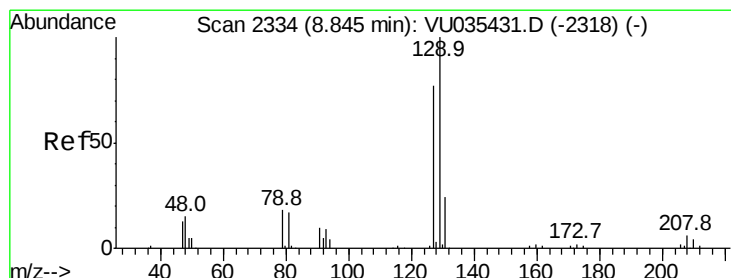
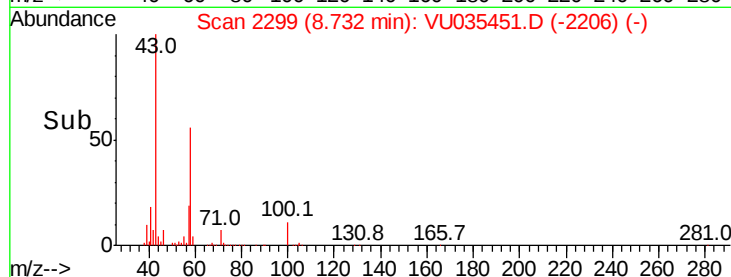
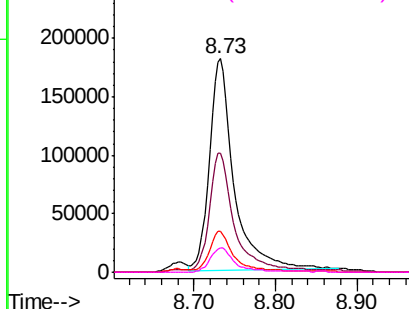
#48
2-Hexanone
Concen: 48.131 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 387383
Ion Ratio Lower Upper
43 100
58 55.4 45.1 67.7
57 18.7 16.0 24.0
100 11.5 10.4 15.6

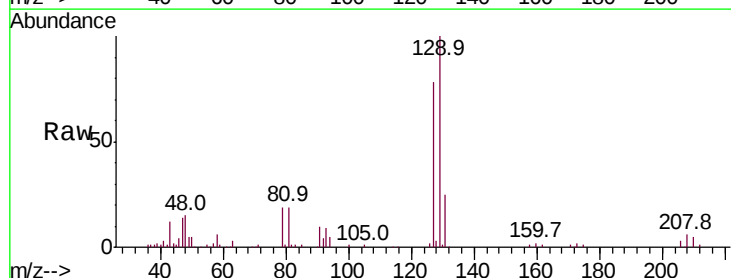


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

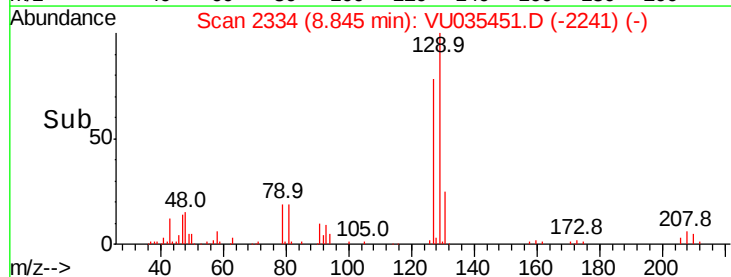
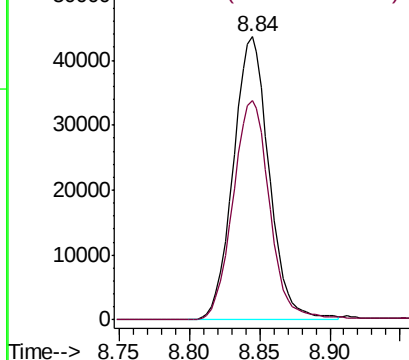


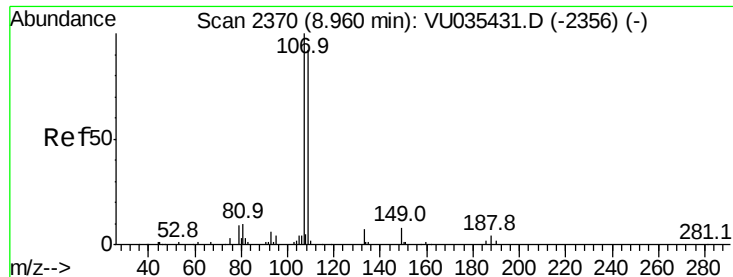
#49
Dibromochloromethane
Concen: 4.852 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Tgt Ion: 129 Resp: 77636
Ion Ratio Lower Upper
129 100
127 77.6 53.8 99.8



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

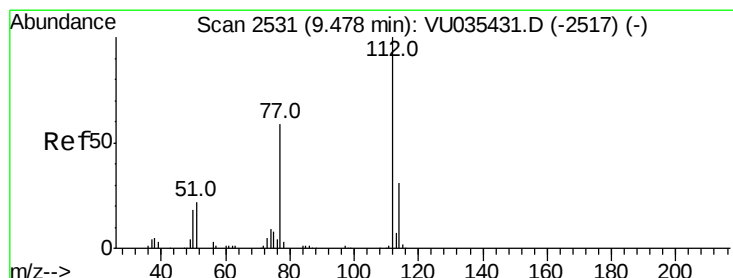
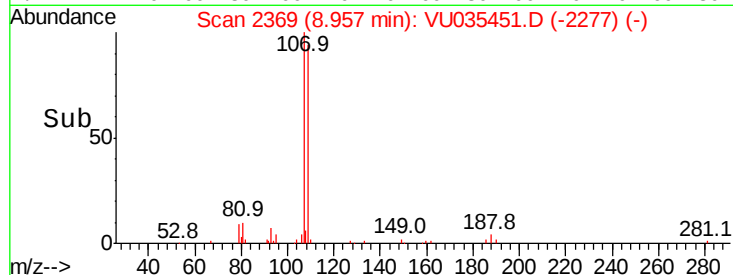
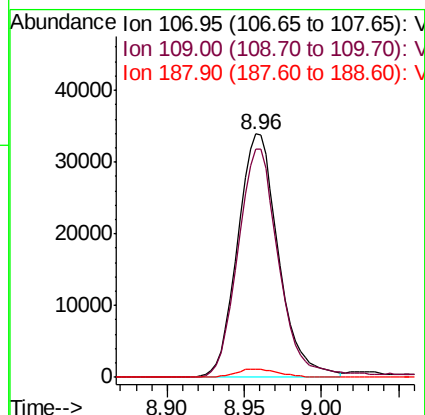
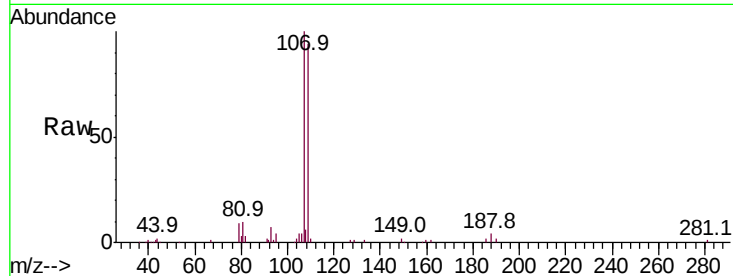




#50
1,2-Dibromoethane
Concen: 4.930 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

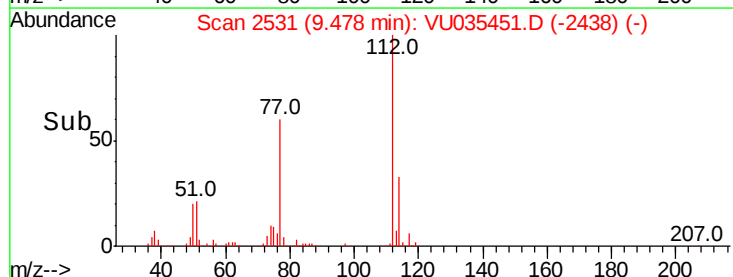
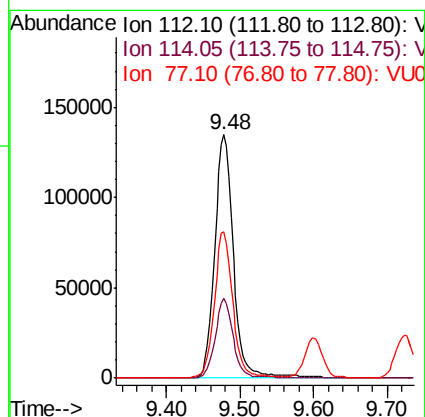
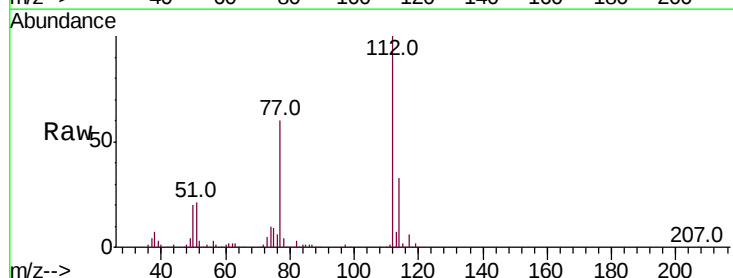
Instrument :
MSVOA_U
ClientSampleId :

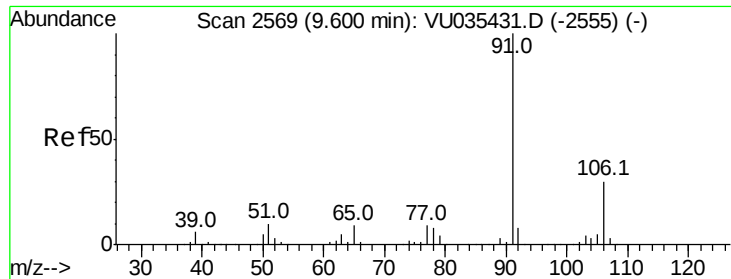
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.1	122.8
188	3.5	3.2	4.8



#51
Chlorobenzene
Concen: 4.992 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	23.0	42.8
77	60.2	47.5	71.3





#52

Ethylbenzene

Concen: 4.529 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

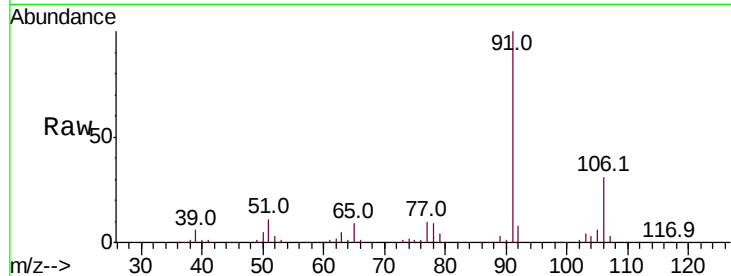
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 380750

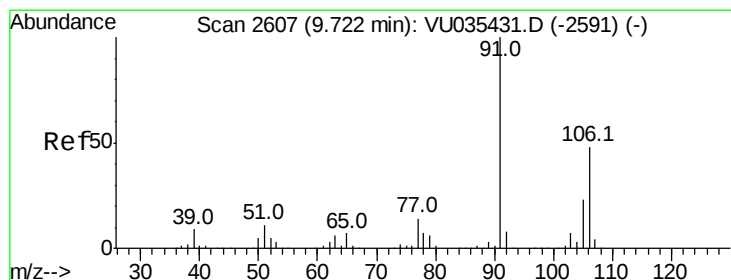
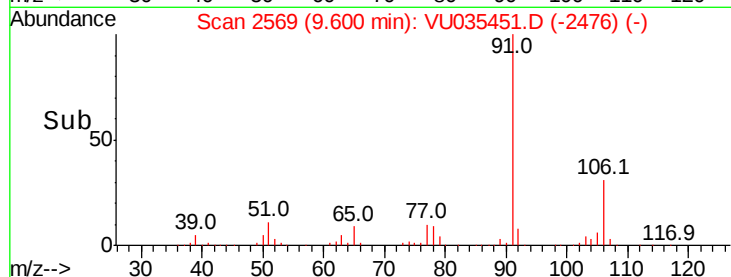
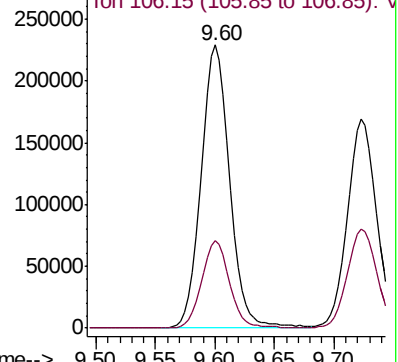
Ion Ratio Lower Upper

91 100

106 31.0 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU035451.D (-2555) (-)



#53

m,p-Xylene

Concen: 4.447 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035451.D

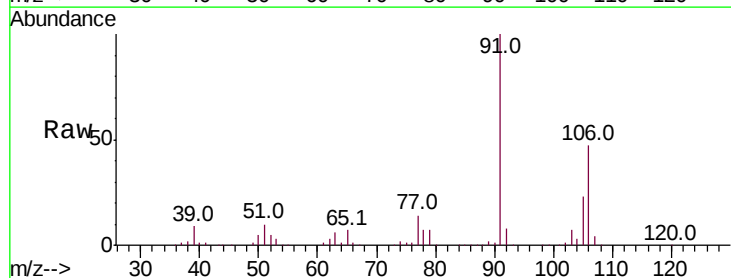
Acq: 24 Oct 2019 10:49

Tgt Ion: 106 Resp: 141161

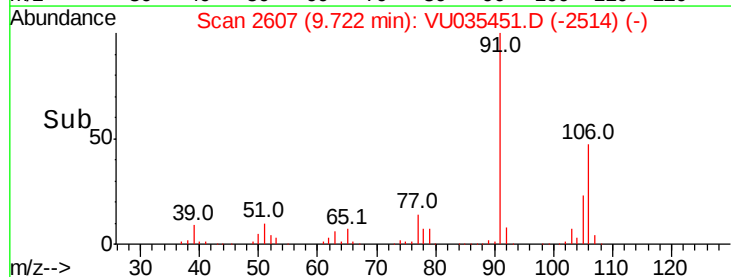
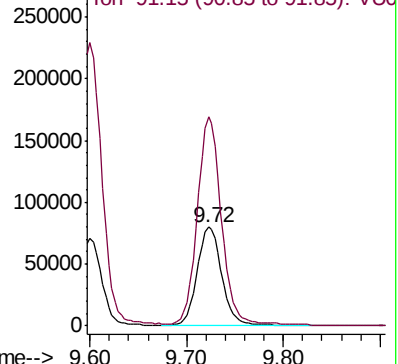
Ion Ratio Lower Upper

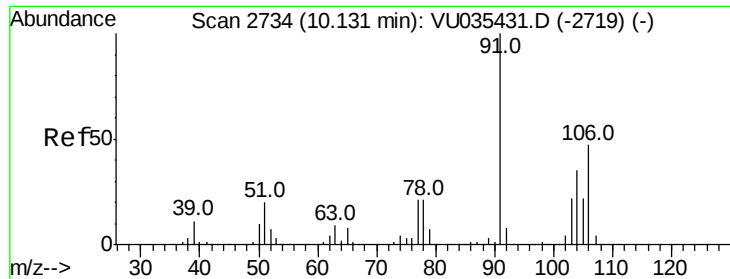
106 100

91 211.3 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035451.D (-2591) (-)

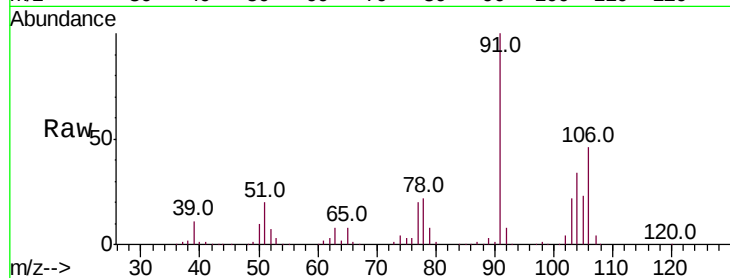




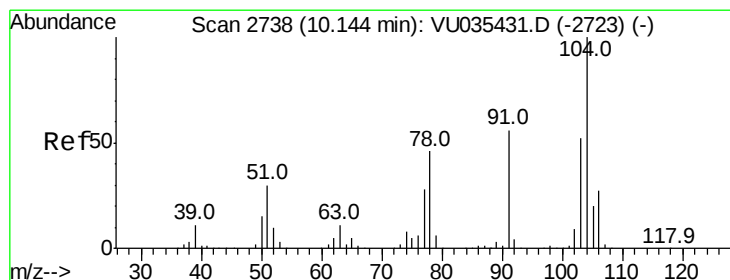
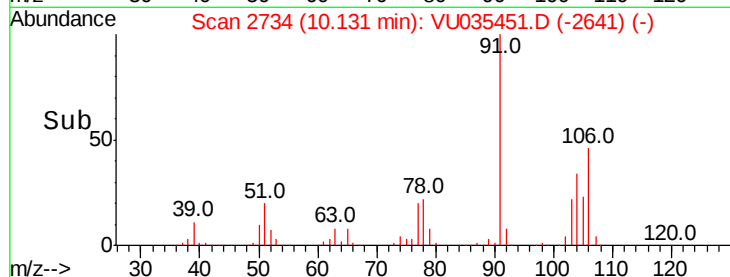
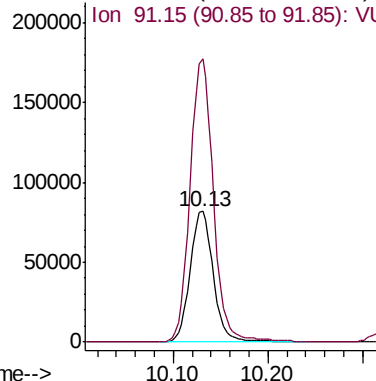
#54
o-Xylene
Concen: 4.518 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 139957
Ion Ratio Lower Upper
106 100
91 216.6 153.2 284.6

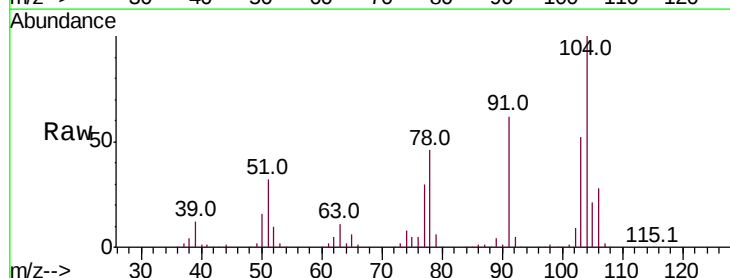


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

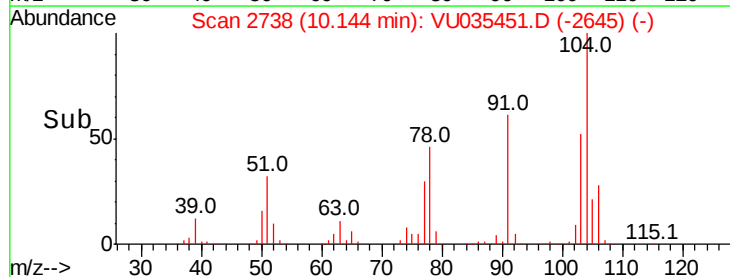
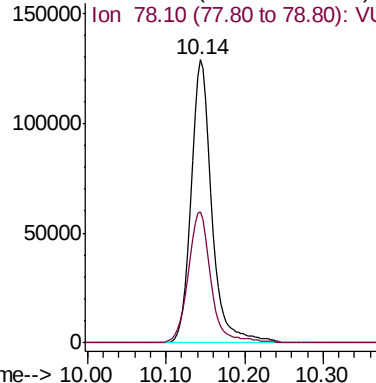


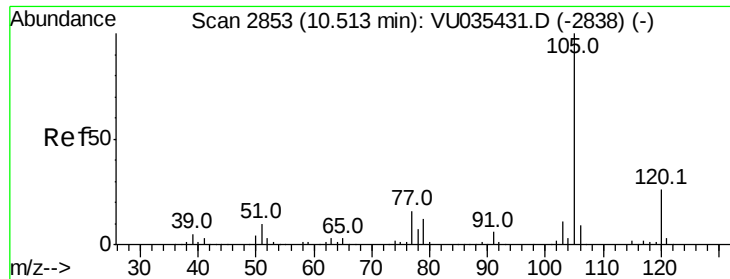
#55
Styrene
Concen: 4.640 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU035451.D
Acq: 24 Oct 2019 10:49

Tgt Ion:104 Resp: 234056
Ion Ratio Lower Upper
104 100
78 46.4 31.3 58.1



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





#56

Isopropylbenzene

Concen: 4.338 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

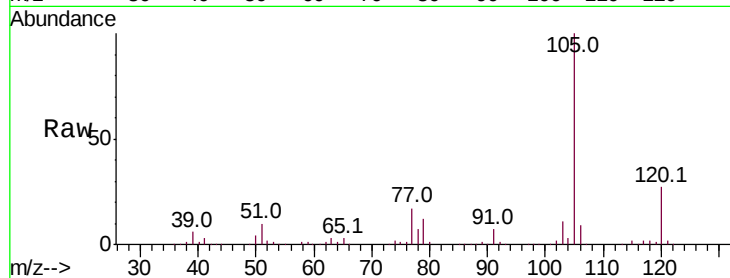
Tot Ion:105 Resp: 361515

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

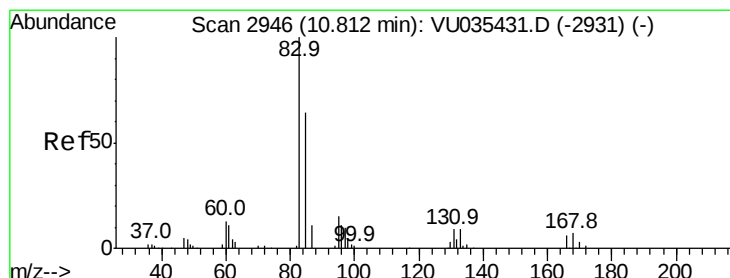
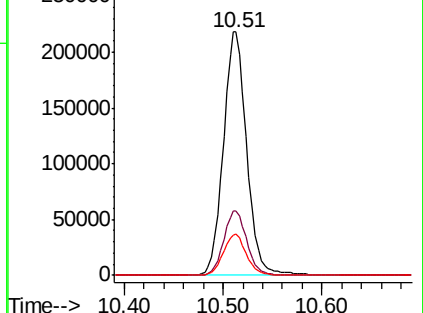
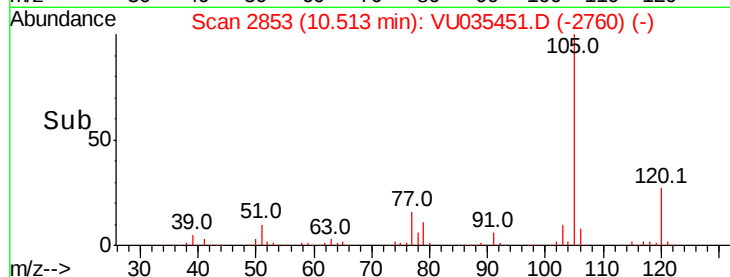
77 16.6 12.6 19.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.375 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

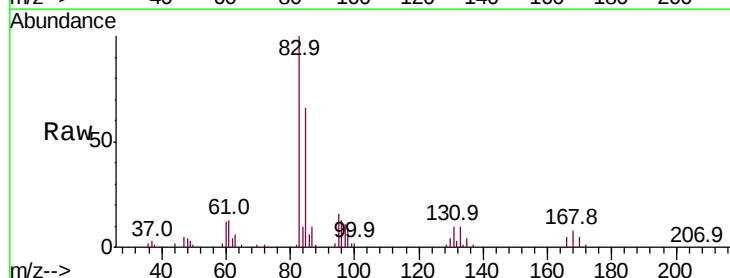
Tgt Ion: 83 Resp: 87300

Ion Ratio Lower Upper

83 100

85 65.8 46.8 86.8

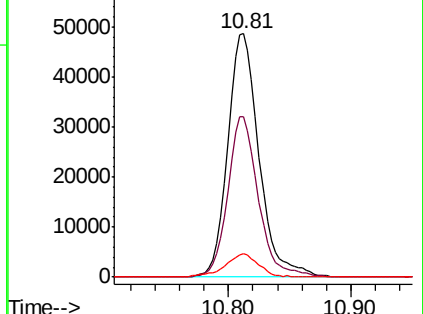
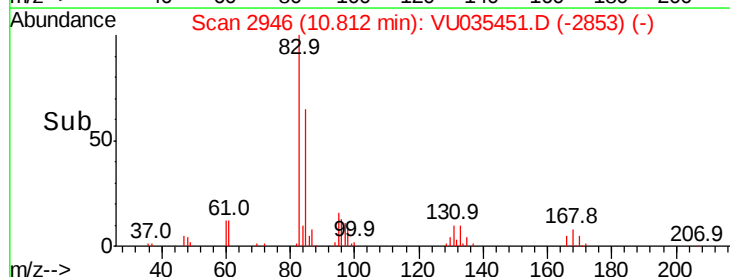
131 9.8 7.5 11.3

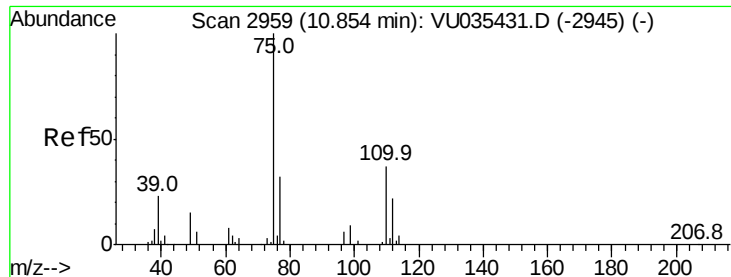


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.183 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

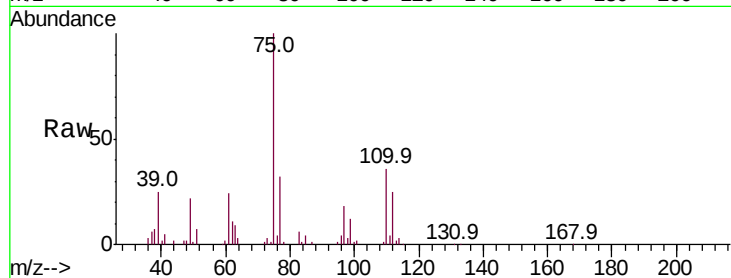
ClientSampleId :

Tot Ion: 75 Resp: 61384

Ion Ratio Lower Upper

75 100

77 33.6 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU035431.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU035431.D (-2945) (-)

10.85

40000

30000

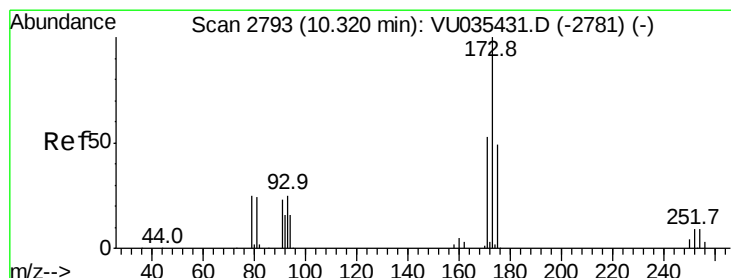
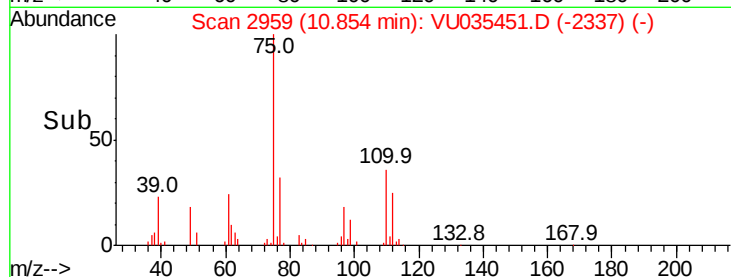
20000

10000

0

Time-->

10.80 10.90



#61

Bromoform

Concen: 5.074 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

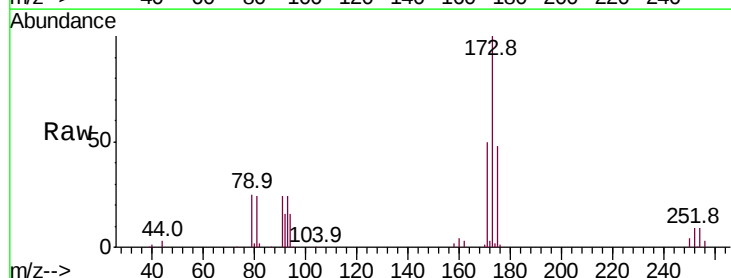
Tgt Ion: 173 Resp: 46596

Ion Ratio Lower Upper

173 100

175 47.7 38.8 58.2

254 8.5 7.5 11.3



Abundance Ion 172.90 (172.60 to 173.60): VU035431.D (-2781) (-)

Ion 174.90 (174.60 to 175.60): VU035431.D (-2781) (-)

Ion 253.75 (253.45 to 254.45): VU035431.D (-2781) (-)

10.32

30000

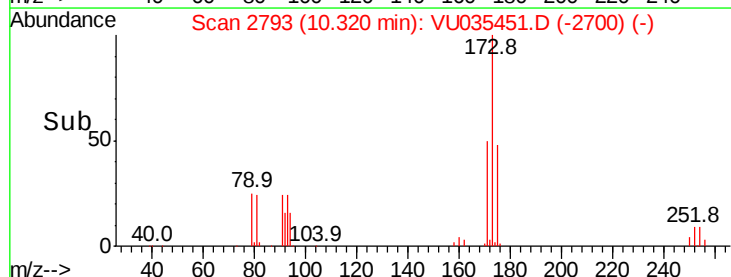
20000

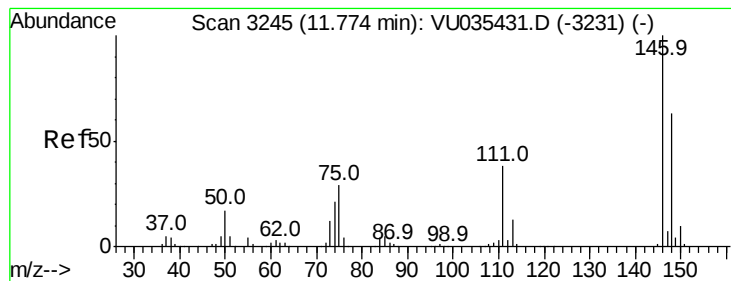
10000

0

Time-->

10.30 10.40





#62

1,3-Dichlorobenzene

Concen: 4.828 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

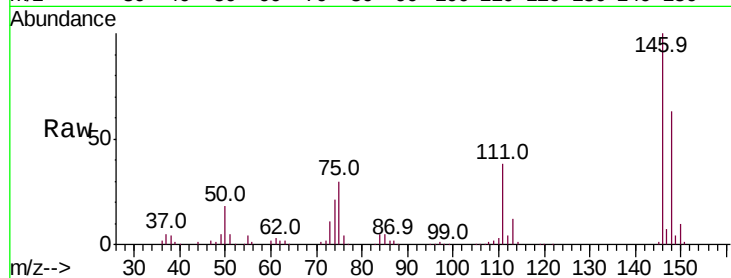
Tot Ion:146 Resp: 163335

Ion Ratio Lower Upper

146 100

111 37.6 27.8 51.6

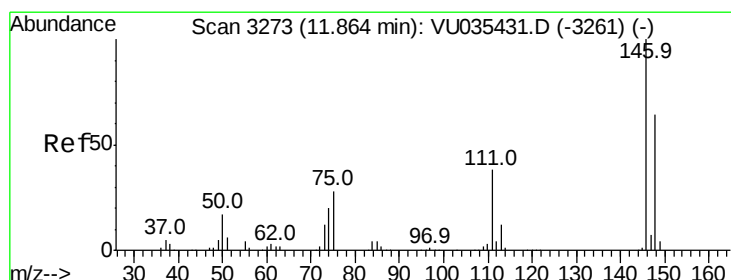
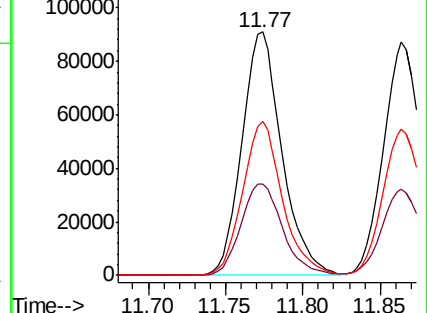
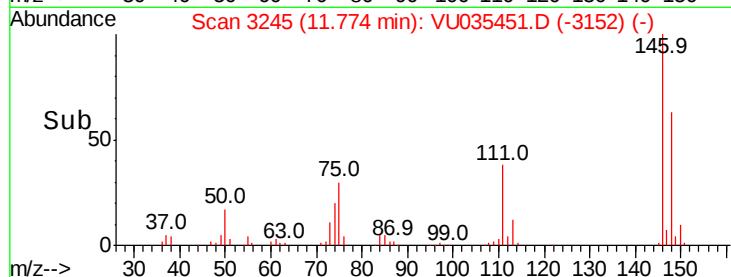
148 63.2 45.6 84.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.691 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

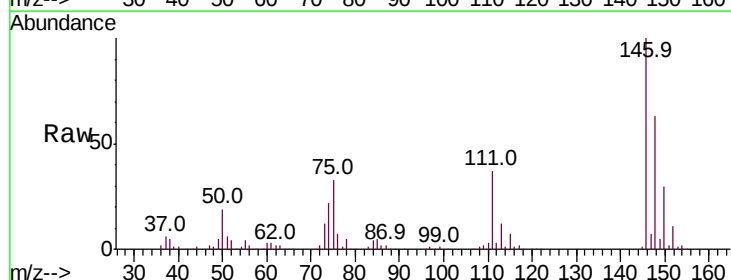
Tgt Ion:146 Resp: 156035

Ion Ratio Lower Upper

146 100

111 36.9 26.4 49.0

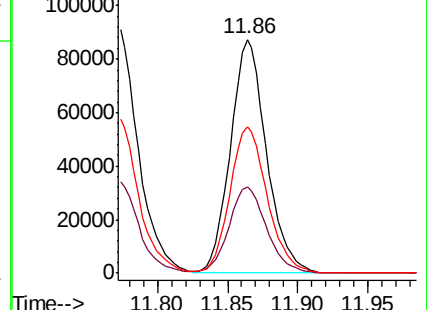
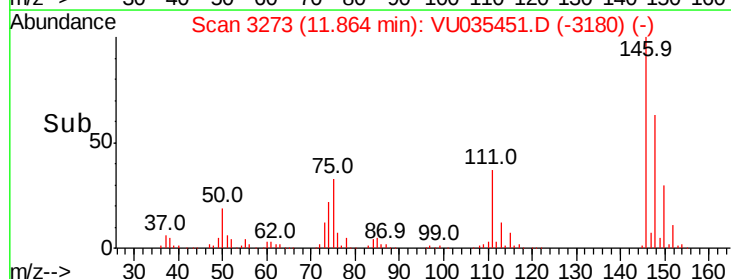
148 62.6 44.7 83.1

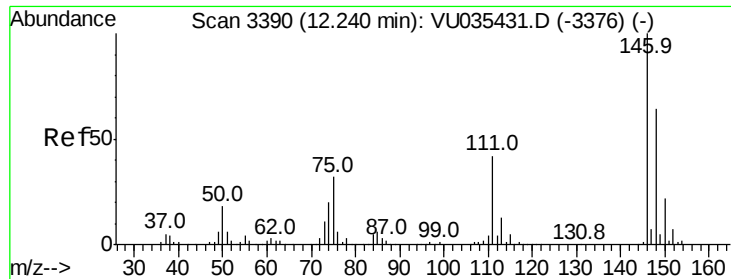


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.850 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

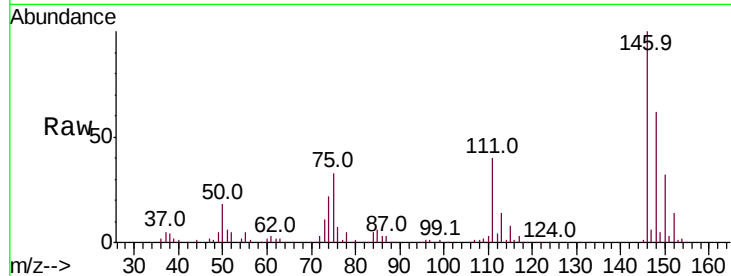
Tot Ion:146 Resp: 154139

Ion Ratio Lower Upper

146 100

111 40.4 33.0 49.6

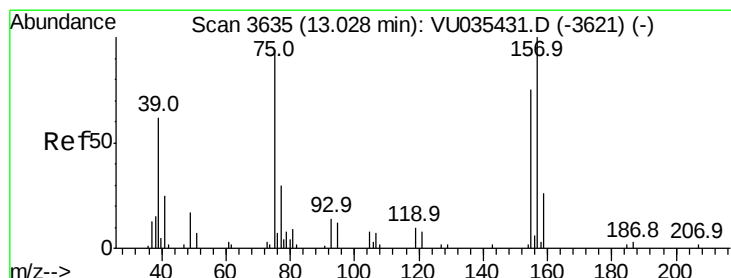
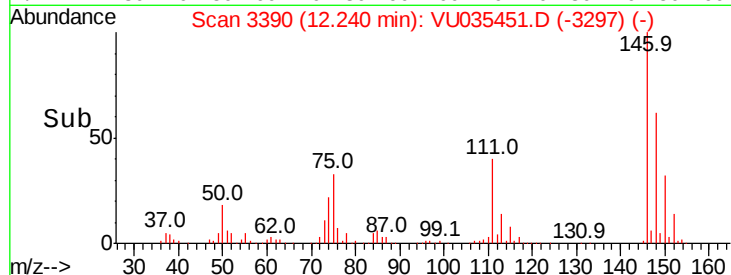
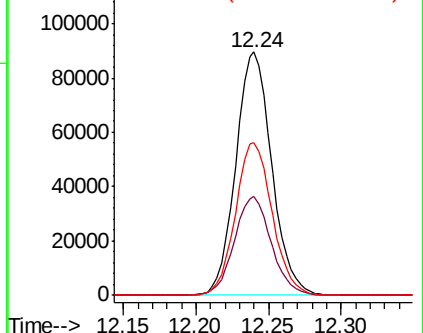
148 62.5 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.687 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. -0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

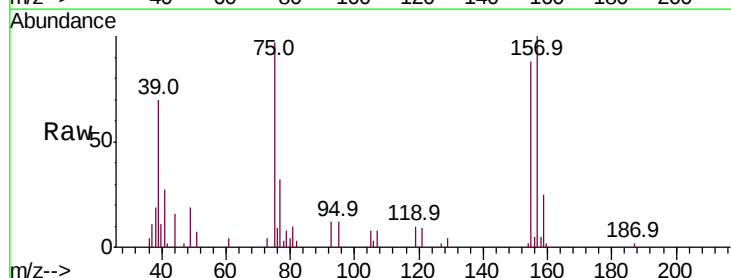
Tgt Ion: 75 Resp: 10521

Ion Ratio Lower Upper

75 100

155 90.5 70.0 105.0

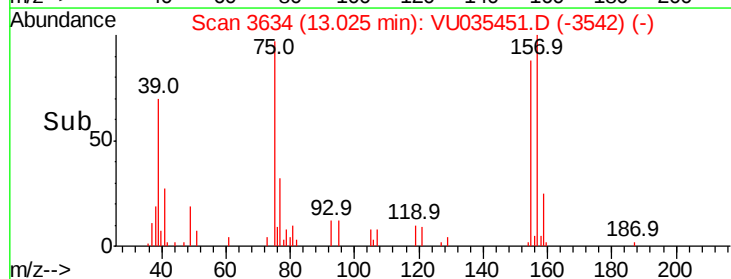
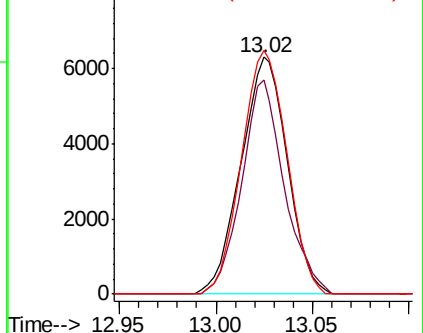
157 102.7 94.7 142.1

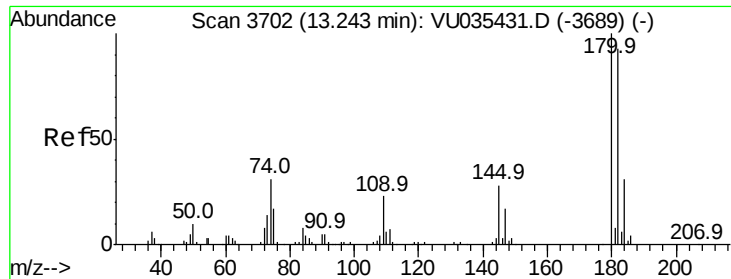


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

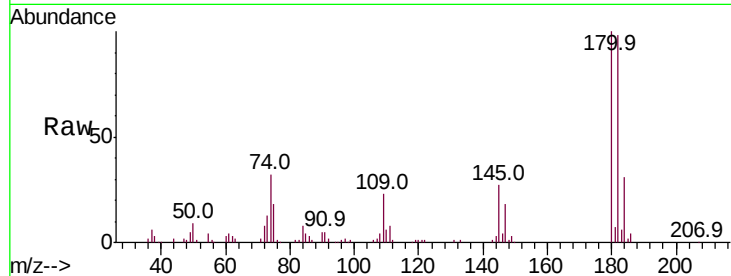




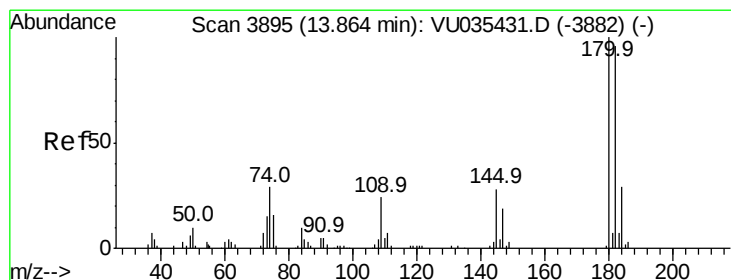
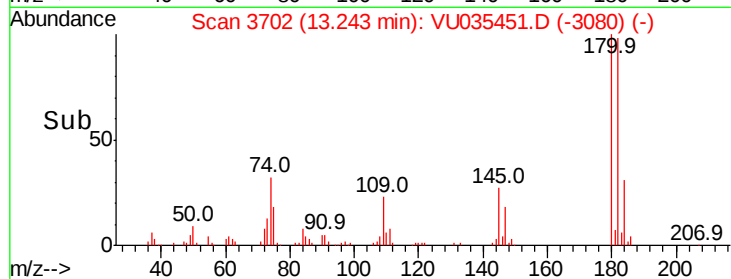
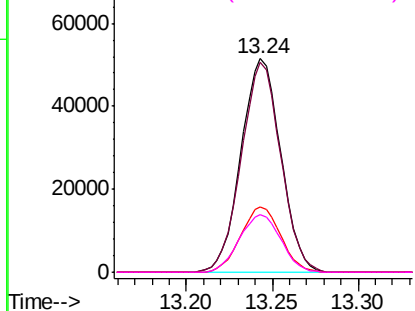
#67
 1,3,5-Trichlorobenzene
 Concen: 3.948 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 82754
 Ion Ratio Lower Upper
 180 100
 182 97.3 77.4 116.2
 184 30.7 23.9 35.9
 145 28.3 22.4 33.6

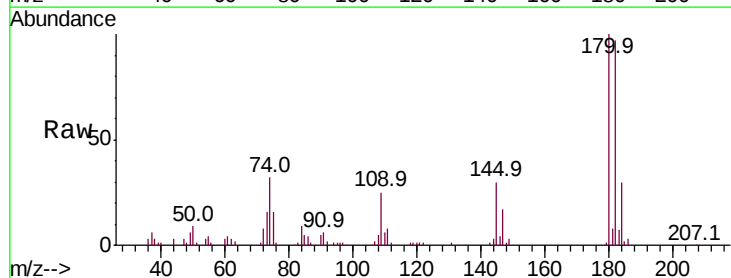


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

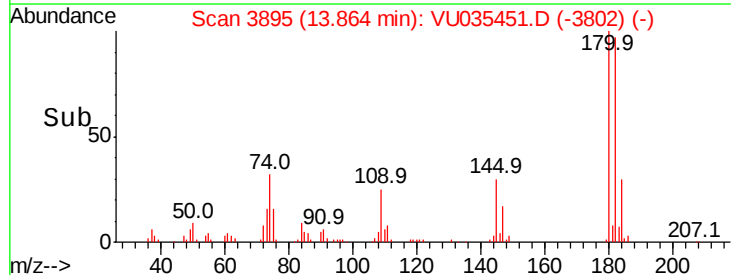
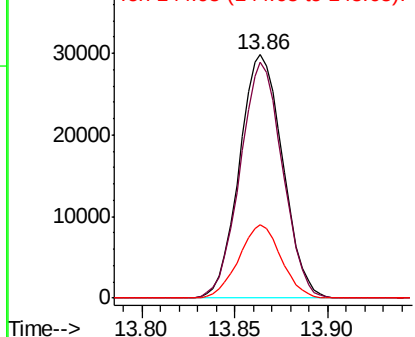


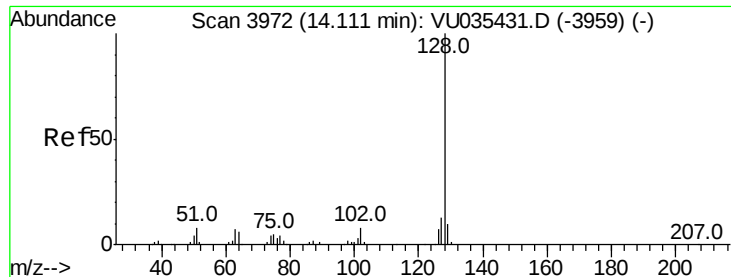
#68
 1,2,4-trichlorobenzene
 Concen: 3.464 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035451.D
 Acq: 24 Oct 2019 10:49

Tgt Ion:180 Resp: 48344
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.9 113.9
 145 29.3 23.4 35.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.121 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

Instrument :

MSVOA_U

ClientSampleId :

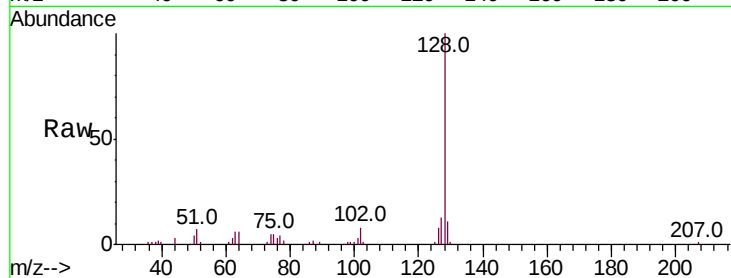
Tot Ion:128 Resp: 59786

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

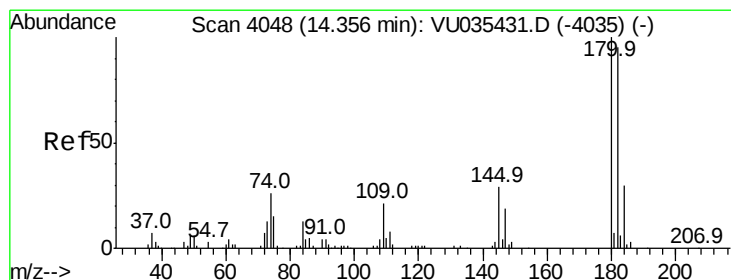
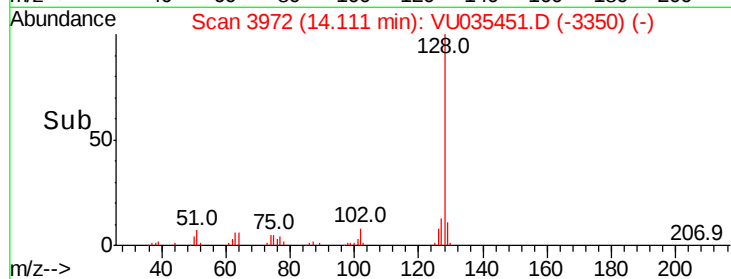
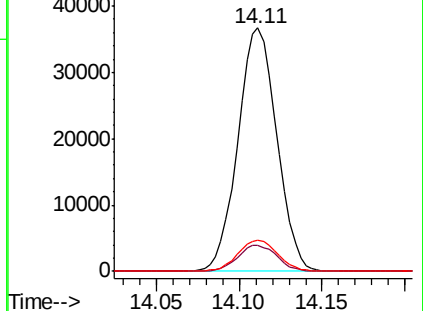
127 12.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.863 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035451.D

Acq: 24 Oct 2019 10:49

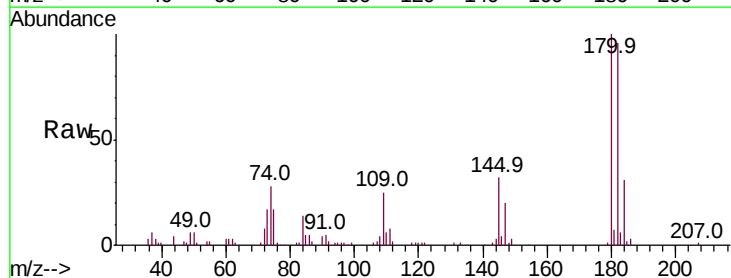
Tgt Ion:180 Resp: 50406

Ion Ratio Lower Upper

180 100

182 94.9 76.0 114.0

145 31.2 24.6 37.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

