

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091819\
 Data File : VU034620.D
 Acq On : 17 Sep 2019 17:13
 Operator : JC/SP
 Sample : VSTD00505
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 17 18:04:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 17 17:59:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	117510	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	112272	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	52092	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	45278	5.43	ug/L	0.00
7) Chloroethane-d5	1.67	69	36332	5.66	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	80196	5.80	ug/L	0.00
20) 2-Butanone-d5	4.17	46	117261	44.96	ug/L	0.00
24) Chloroform-d	4.62	84	70234	4.67	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	39065	4.70	ug/L	0.00
32) Benzene-d6	5.32	84	149717	4.91	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	49362	4.73	ug/L	0.00
41) Toluene-d8	7.54	98	138777	4.84	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	19350	4.28	ug/L	0.00
46) 2-Hexanone-d5	8.30	63	91113	42.22	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	37297	4.22	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	42479	4.63	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	43252	6.596	ug/L 100
3) Chloromethane	1.32	50	40846	5.040	ug/L 100
5) Vinyl chloride	1.40	62	41642	5.513	ug/L 100
6) Bromomethane	1.62	94	20267	5.259	ug/L 100
8) Chloroethane	1.69	64	24940	5.649	ug/L 100
9) Trichlorofluoromethane	1.87	101	55212	5.991	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	31454	6.258	ug/L 100
12) 1,1-Dichloroethene	2.27	96	27518	5.522	ug/L 100
13) Acetone	2.32	43	81292	47.119	ug/L 100
14) Carbon disulfide	2.46	76	69748	5.442	ug/L 100
15) Methyl Acetate	2.60	43	20651	4.611	ug/L 100
16) Methylene chloride	2.69	84	34263	4.944	ug/L 100
17) Methyl tert-butyl Ether	2.98	73	97701	5.027	ug/L 100
18) trans-1,2-Dichloroethene	2.96	96	27810	5.039	ug/L 100
19) 1,1-Dichloroethane	3.42	63	71844	5.064	ug/L 100
21) 2-Butanone	4.26	43	133229	49.105	ug/L 100
22) cis-1,2-Dichloroethene	4.20	96	38426	4.670	ug/L 100
23) Bromochloromethane	4.52	128	14734	4.378	ug/L 100
25) Chloroform	4.65	83	77663	5.026	ug/L 100
27) 1,2-Dichloroethane	5.38	62	46761	5.199	ug/L 100
29) 1,1,1-Trichloroethane	4.89	97	57979	5.150	ug/L 100
30) Cyclohexane	4.96	56	60899	6.346	ug/L 100
31) Carbon tetrachloride	5.11	117	46958	5.287	ug/L 100
33) Benzene	5.36	78	146799	4.882	ug/L 100
34) Trichloroethene	6.16	95	37157	4.939	ug/L 100
35) Methylcyclohexane	6.39	83	59143	6.020	ug/L 100
37) 1,2-Dichloropropane	6.41	63	44695	5.033	ug/L 100
38) Bromodichloromethane	6.73	83	53586	4.824	ug/L 100
39) cis-1,3-Dichloropropene	7.25	75	64792	4.906	ug/L 100
40) 4-Methyl-2-pentanone	7.44	43	351761	48.598	ug/L 100

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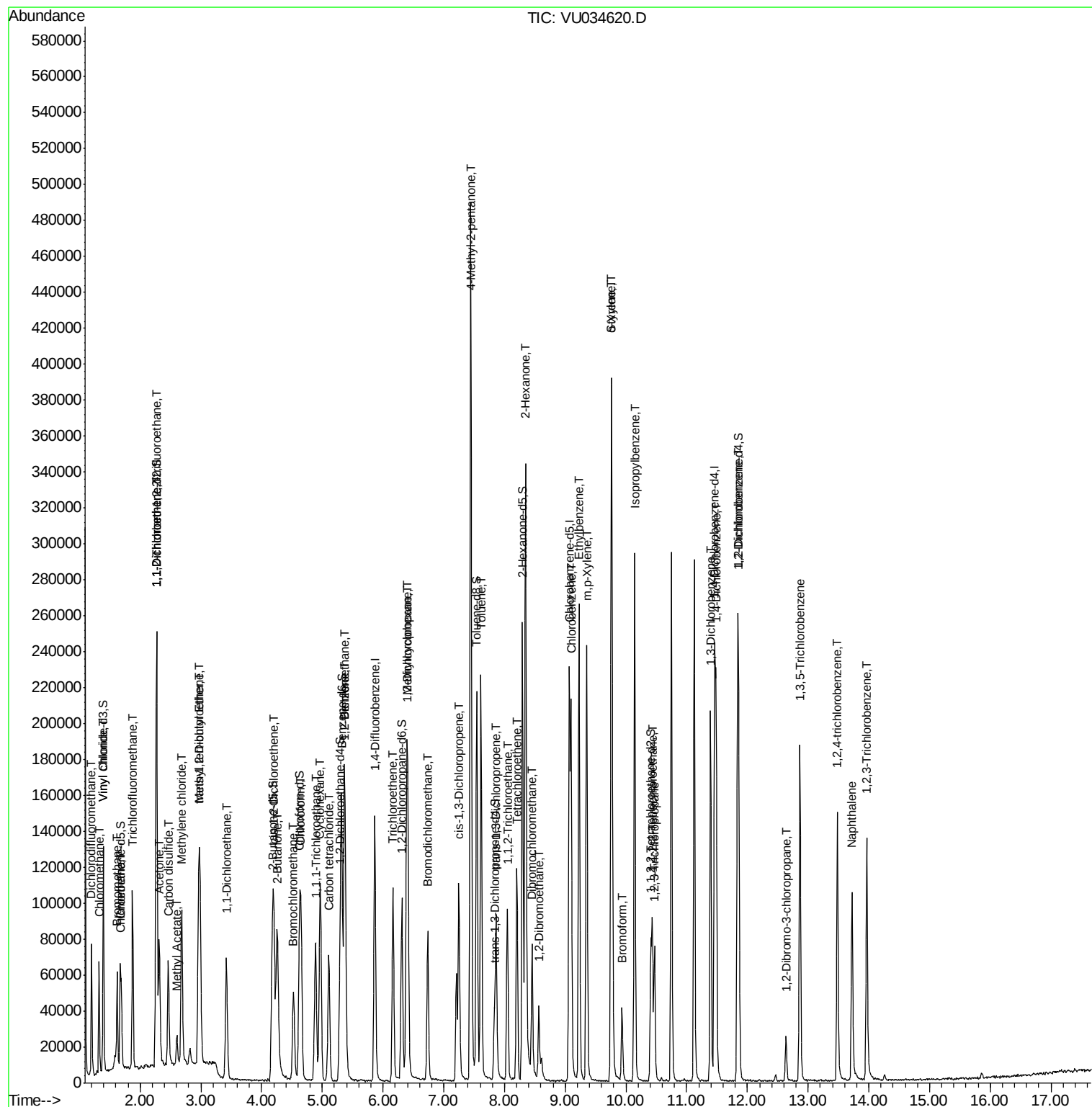
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	158481	4.965	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	51641	4.709	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	29006	4.648	ug/L	100
47) Tetrachloroethene	8.21	164	22504	4.902	ug/L	100
48) 2-Hexanone	8.35	43	238347	48.694	ug/L	100
49) Dibromochloromethane	8.46	129	34043	4.534	ug/L	100
50) 1,2-Dibromoethane	8.57	107	26692	4.543	ug/L	100
51) Chlorobenzene	9.10	112	101302	4.909	ug/L	100
52) Ethylbenzene	9.23	91	184620	5.085	ug/L	100
53) m,p-Xylene	9.35	106	65098	4.920	ug/L	100
54) o-Xylene	9.76	106	65633	4.846	ug/L	100
55) Styrene	9.77	104	110619	4.804	ug/L	100
56) Isopropylbenzene	10.14	105	183656	5.206	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.43	83	44076	4.795	ug/L	100
59) 1,2,3-Trichloropropane	10.47	75	29745	4.738	ug/L	100
61) Bromoform	9.94	173	16588	4.173	ug/L	100
62) 1,3-Dichlorobenzene	11.39	146	72527	4.657	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	73551	4.735	ug/L	100
65) 1,2-Dichlorobenzene	11.86	146	70515	4.749	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	6942	4.679	ug/L	100
67) 1,3,5-Trichlorobenzene	12.87	180	48984	4.691	ug/L	100
68) 1,2,4-trichlorobenzene	13.48	180	39605	4.732	ug/L	100
69) Naphthalene	13.72	128	84729	4.569	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	36848	4.591	ug/L	100

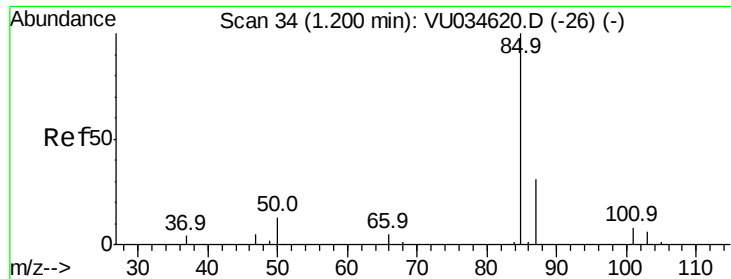
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 6.596 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

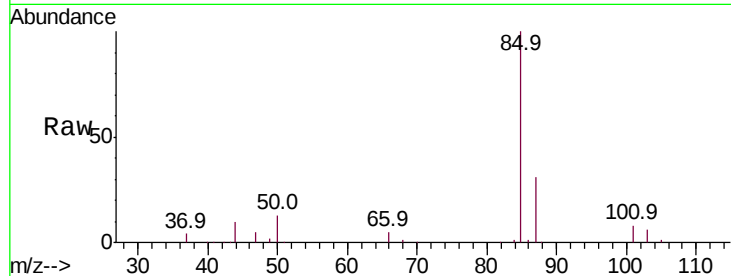
ClientSampleId :

Tot Ion: 85 Resp: 43252

Ion Ratio Lower Upper

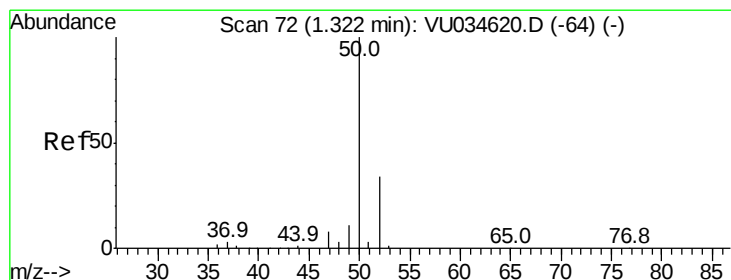
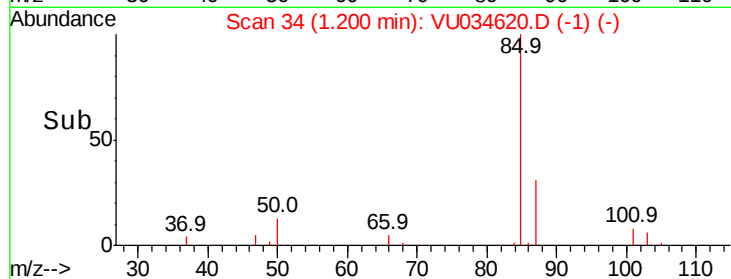
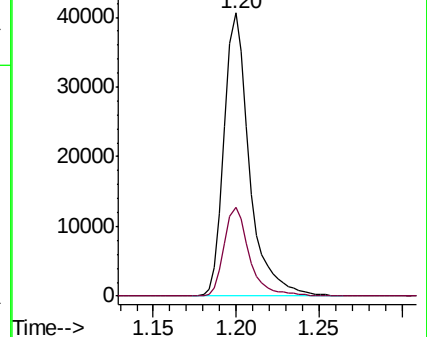
85 100

87 31.2 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU034620.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034620.D (-26) (-)



#3

Chloromethane

Concen: 5.040 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034620.D

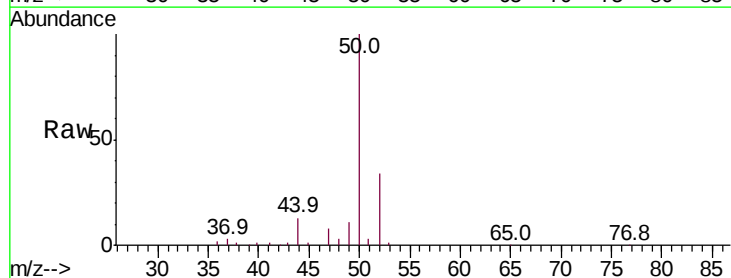
Acq: 17 Sep 2019 17:13

Tgt Ion: 50 Resp: 40846

Ion Ratio Lower Upper

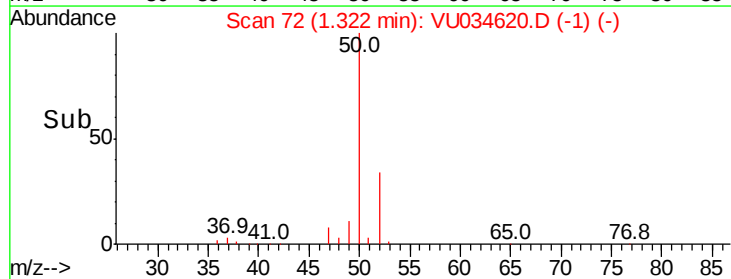
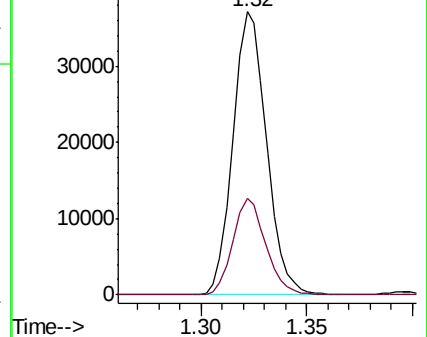
50 100

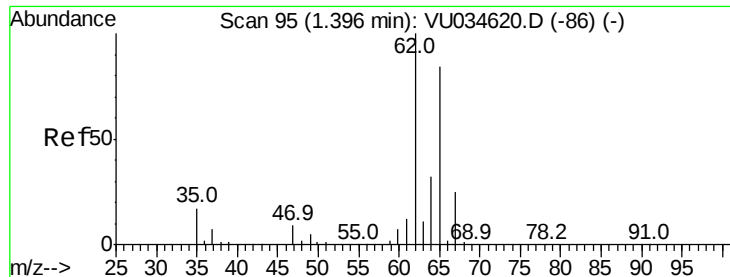
52 34.1 23.9 44.3



Abundance Ion 50.05 (49.75 to 50.75): VU034620.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034620.D (-64) (-)





#5

Vinyl chloride

Concen: 5.513 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

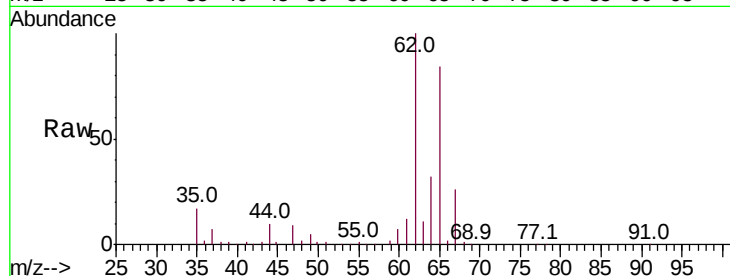
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 41642

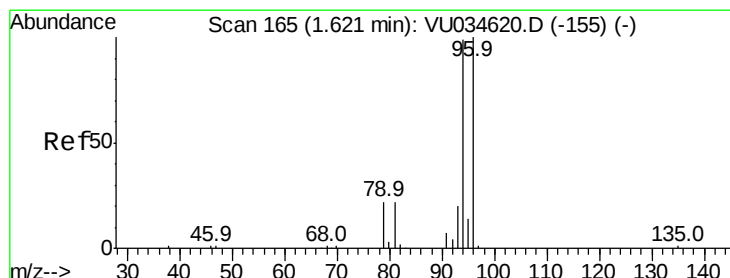
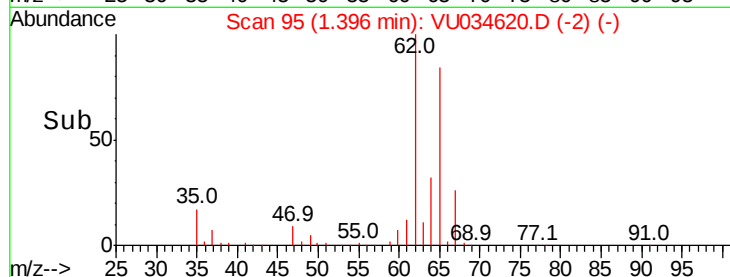
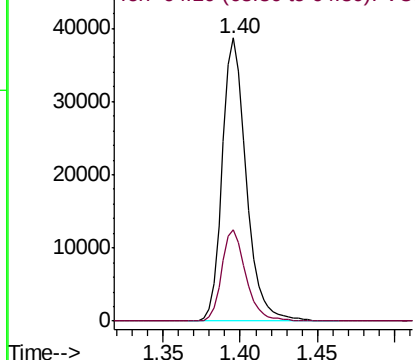
Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.259 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034620.D

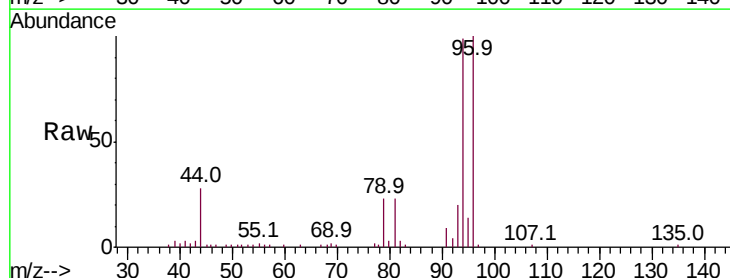
Acq: 17 Sep 2019 17:13

Tgt Ion: 94 Resp: 20267

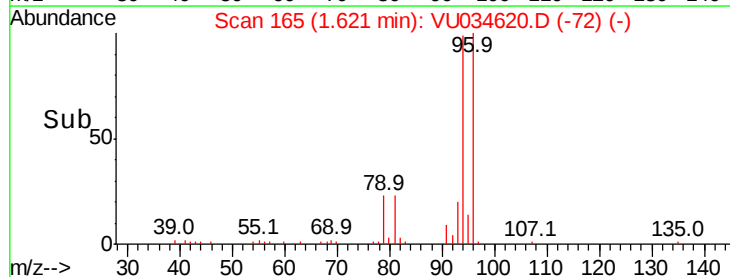
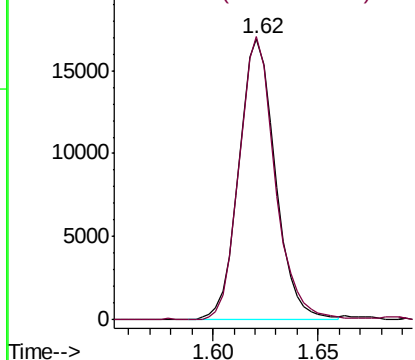
Ion Ratio Lower Upper

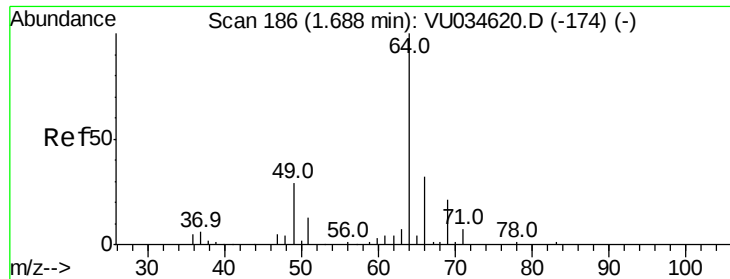
94 100

96 100.6 70.4 130.8



Abundance Ion 94.00 (93.70 to 94.70): VU0
Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.649 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

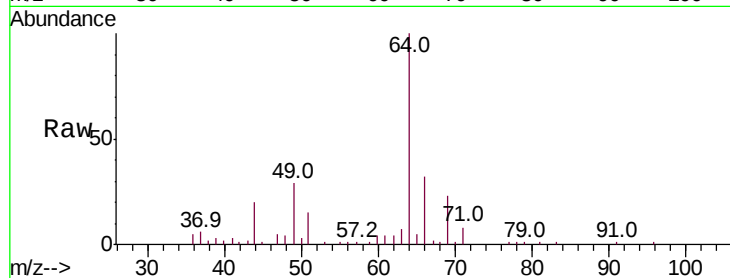
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 24940

Ion Ratio Lower Upper

64 100

66 32.3 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU034620.D (-174) (-)

Ion 66.05 (65.75 to 66.75): VU034620.D (-174) (-)

1.69

20000

15000

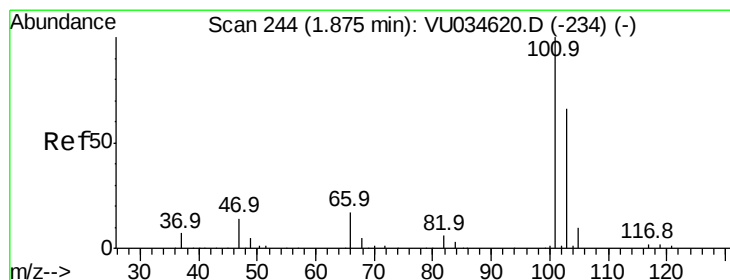
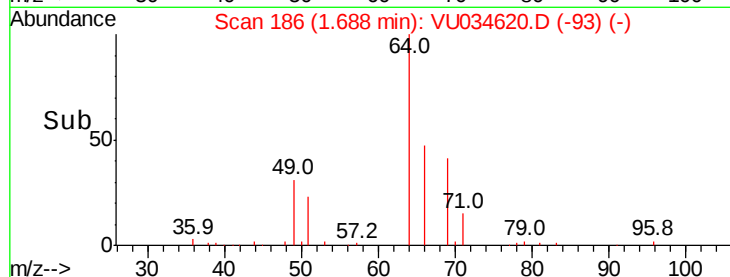
10000

5000

0

Time-->

1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 5.991 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034620.D

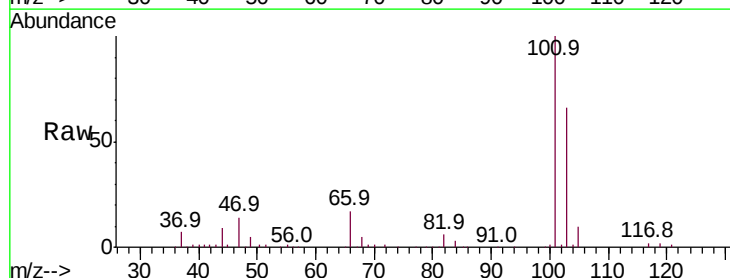
Acq: 17 Sep 2019 17:13

Tgt Ion:101 Resp: 55212

Ion Ratio Lower Upper

101 100

103 66.5 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VU034620.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU034620.D (-234) (-)

1.87

40000

30000

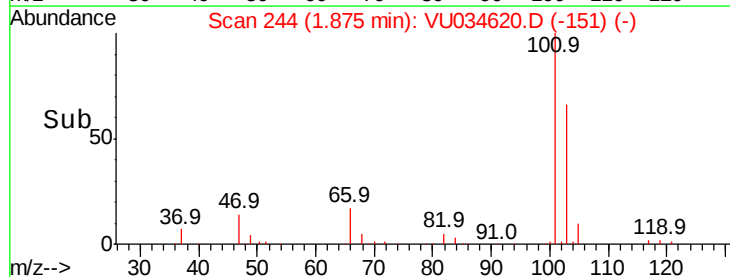
20000

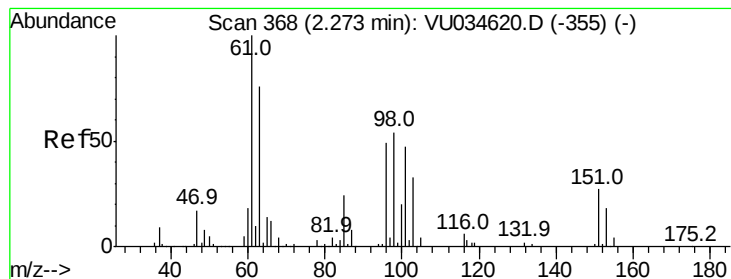
10000

0

Time-->

1.80 1.85 1.90 1.95





#10

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

Concen: 6.258 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

ClientSampled :

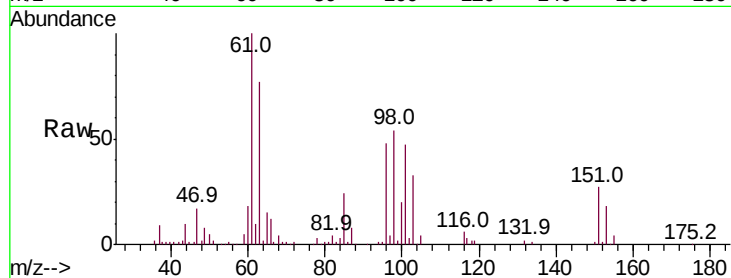
Tot Ion:101 Resp: 31454

Ion Ratio Lower Upper

101 100

85 52.4 41.9 62.9

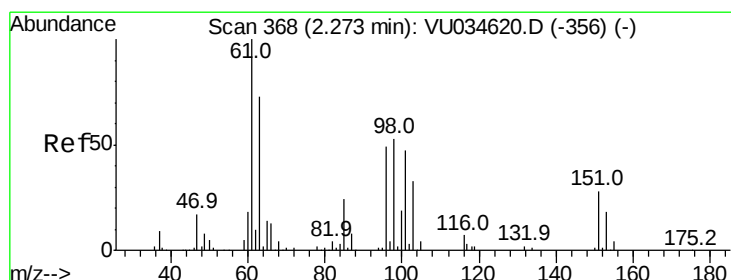
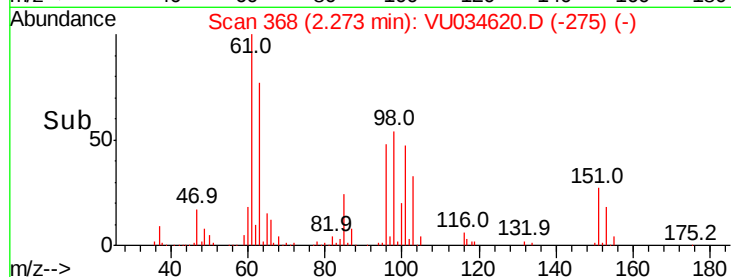
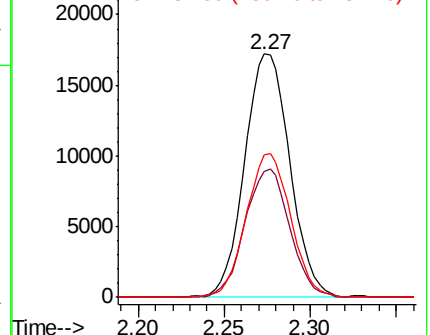
151 58.0 46.4 69.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.522 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

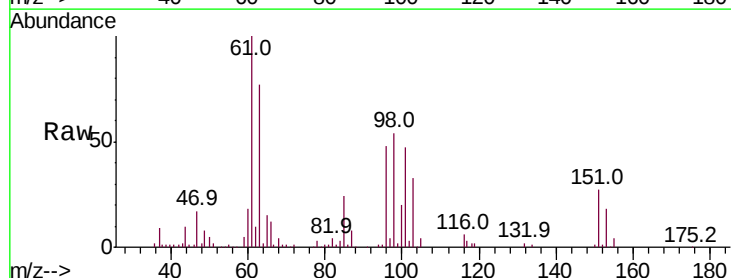
Tgt Ion: 96 Resp: 27518

Ion Ratio Lower Upper

96 100

61 206.3 144.4 268.2

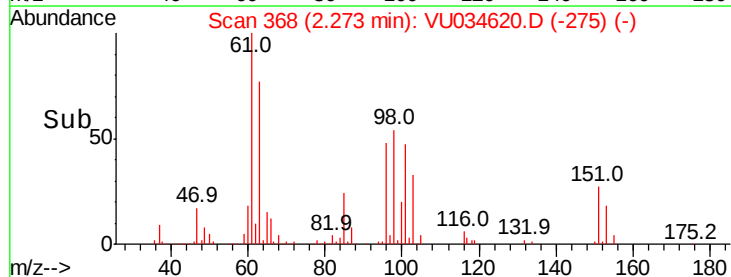
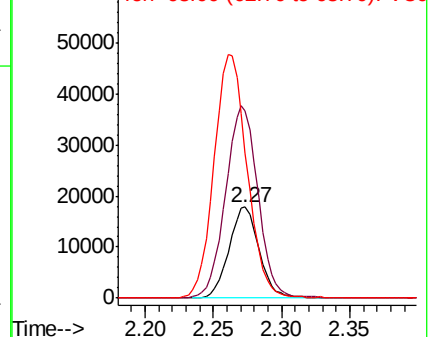
63 159.3 111.5 207.1

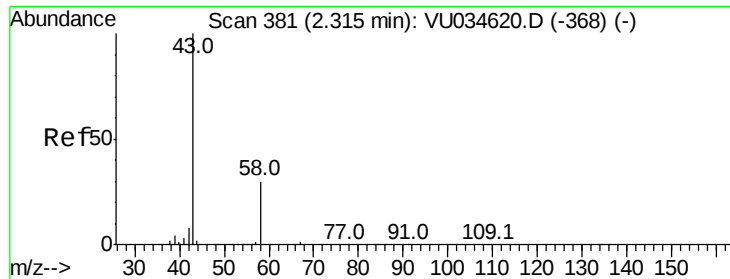


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.119 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

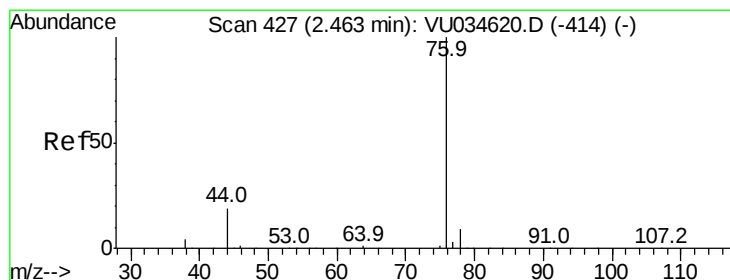
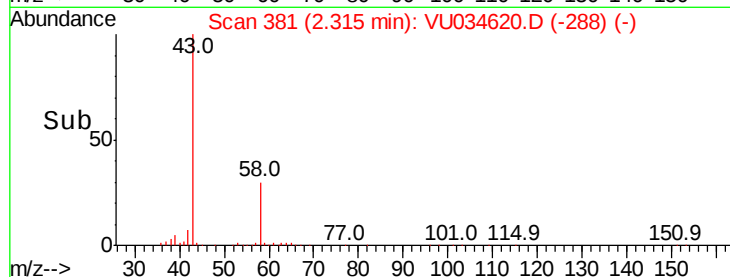
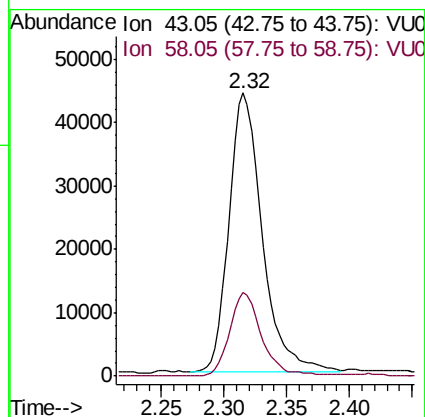
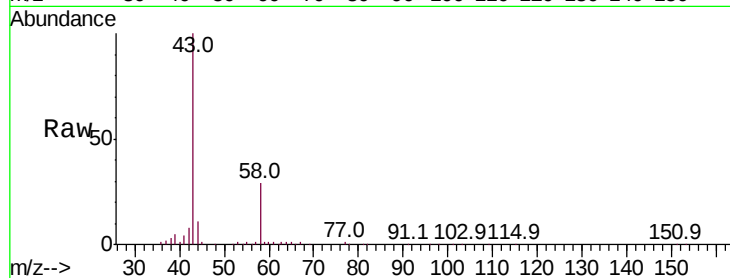
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 81292

Ion Ratio Lower Upper

43 100

58 28.9 0.0 57.8



#14

Carbon disulfide

Concen: 5.442 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034620.D

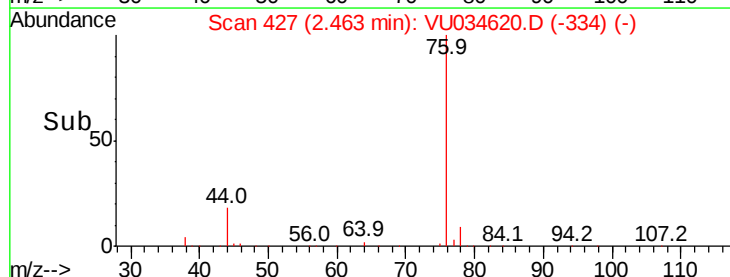
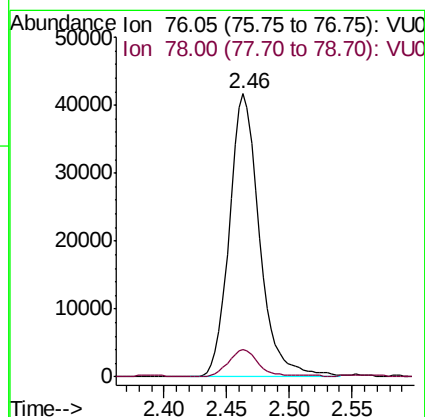
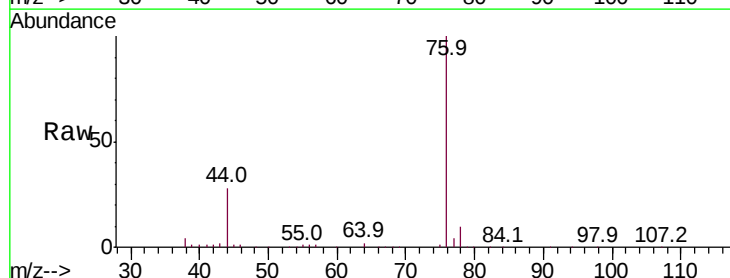
Acq: 17 Sep 2019 17:13

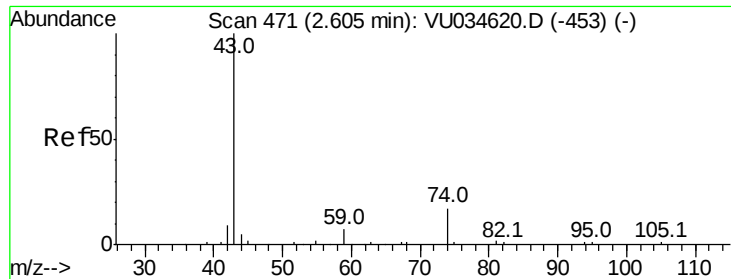
Tgt Ion: 76 Resp: 69748

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5

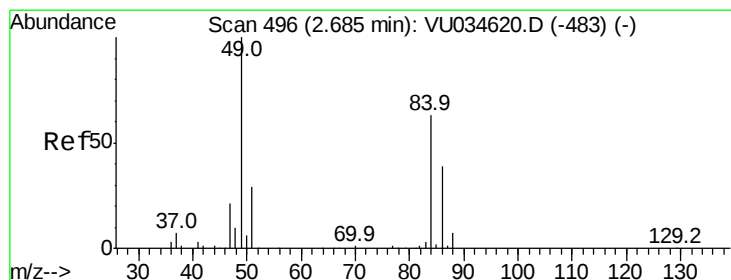
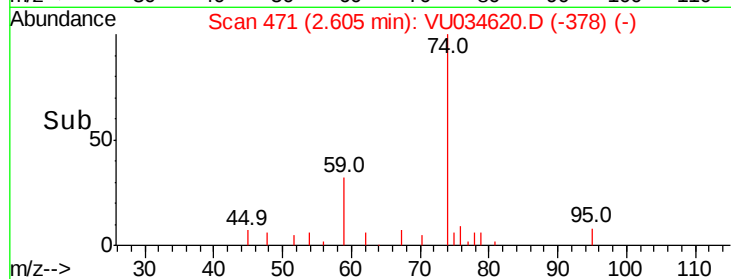
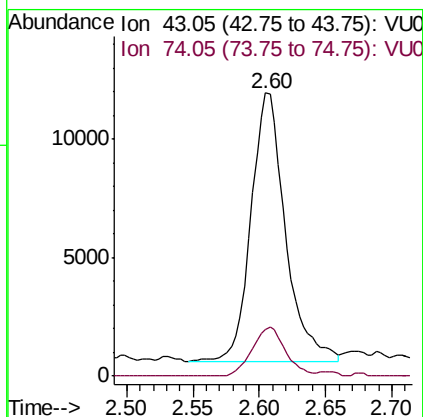
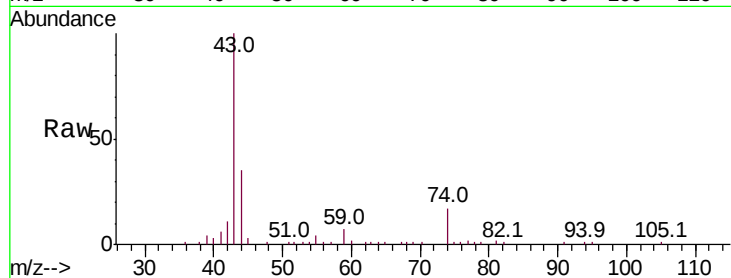




#15
Methyl Acetate
Concen: 4.611 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

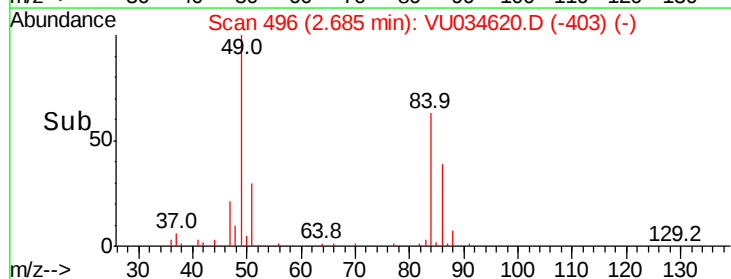
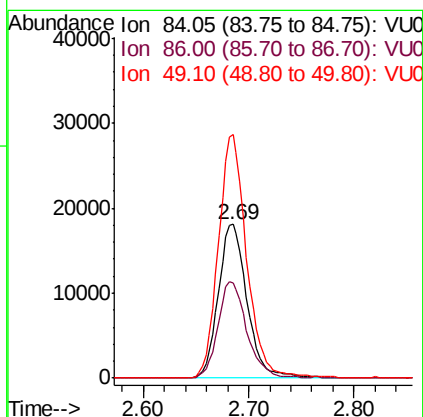
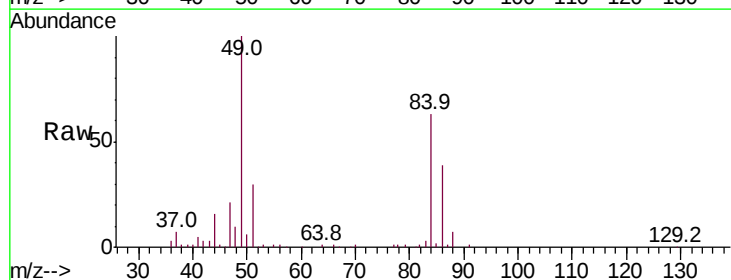
Instrument :
MSVOA_U
ClientSampleId :

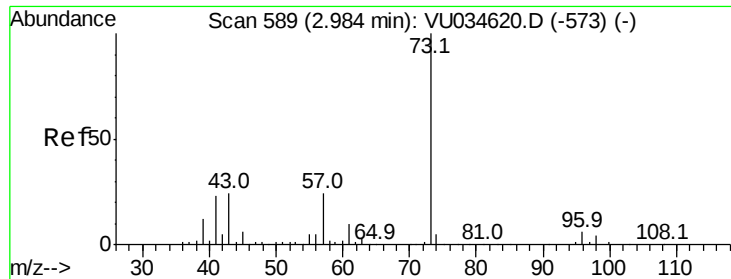
Tot Ion: 43 Resp: 20651
Ion Ratio Lower Upper
43 100
74 17.7 14.2 21.2



#16
Methylene chloride
Concen: 4.944 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Tgt Ion: 84 Resp: 34263
Ion Ratio Lower Upper
84 100
86 61.5 43.0 80.0
49 158.4 110.9 205.9

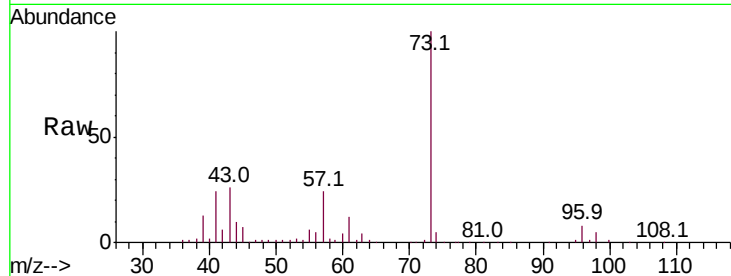




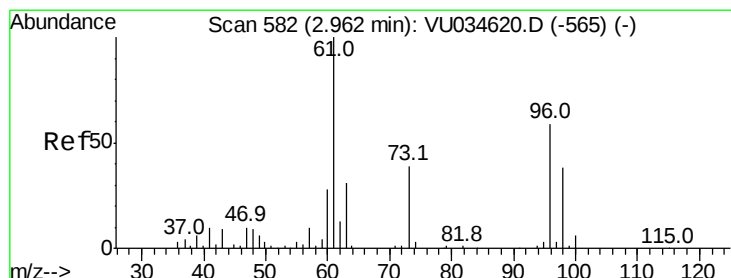
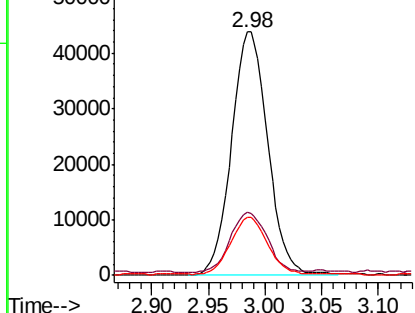
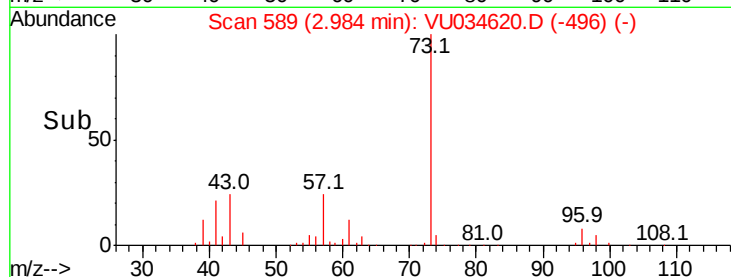
#17
Methvl tert-butvl Ether
Concen: 5.027 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 97701
Ion Ratio Lower Upper
73 100
43 25.4 20.3 30.5
57 23.6 18.9 28.3

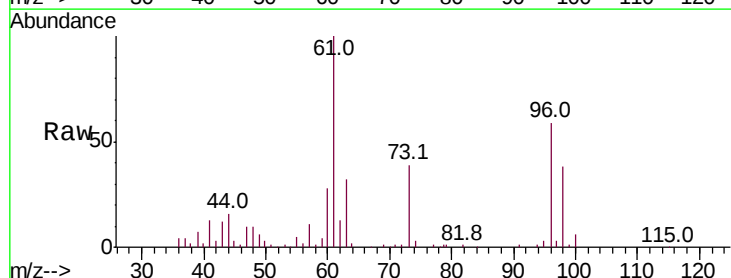


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

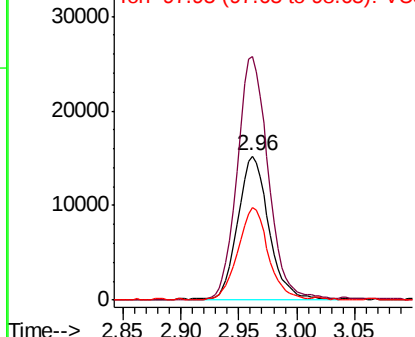
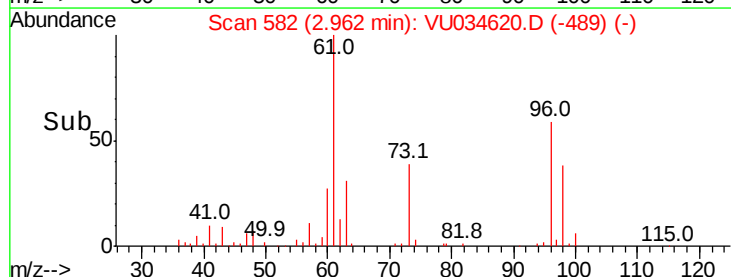


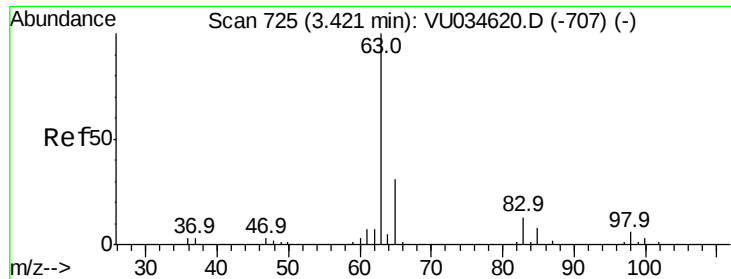
#18
trans-1,2-Dichloroethene
Concen: 5.039 ug/L
RT: 2.96 min Scan# 582
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Tgt Ion: 96 Resp: 27810
Ion Ratio Lower Upper
96 100
61 168.9 118.2 219.6
98 64.0 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

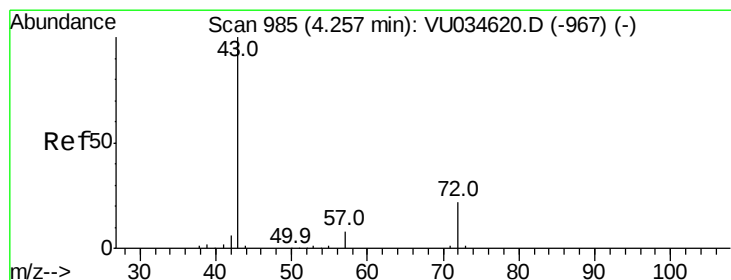
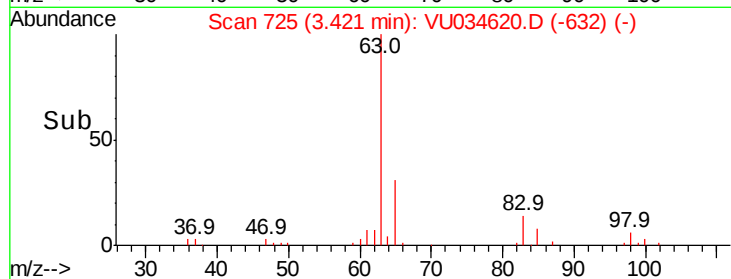
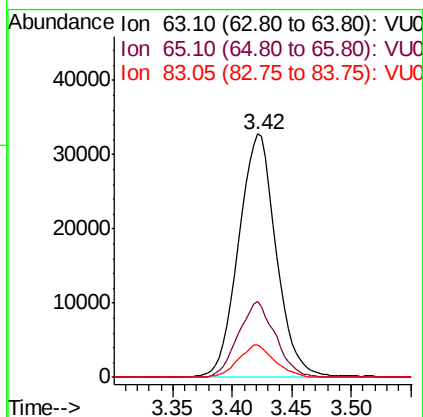
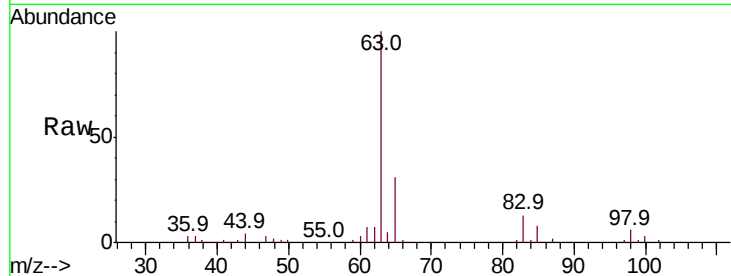




#19
 1,1-Dichloroethane
 Concen: 5.064 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

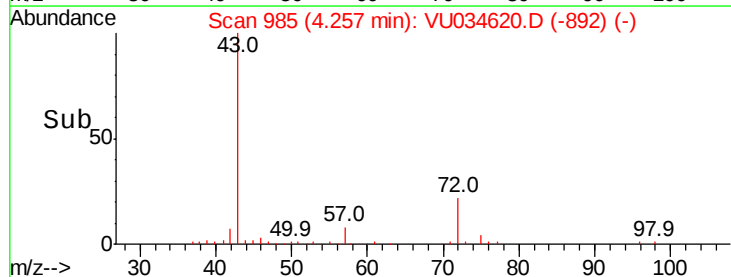
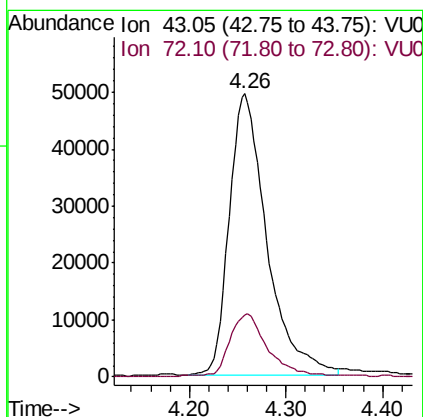
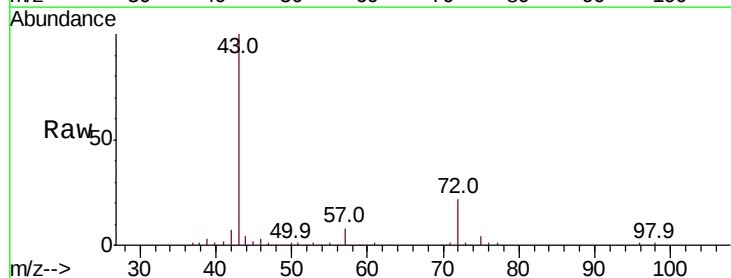
Instrument :
 MSVOA_U
 ClientSampleId :

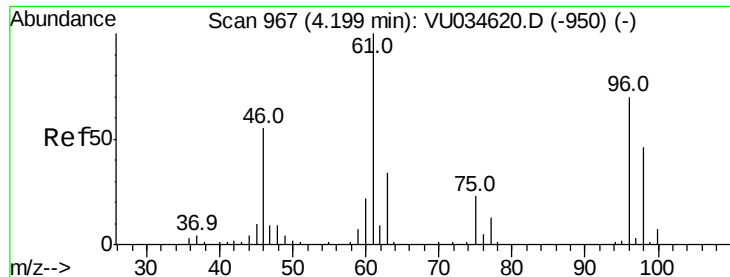
Tot Ion: 63 Resp: 71844
 Ion Ratio Lower Upper
 63 100
 65 31.3 21.9 40.7
 83 13.5 9.4 17.6



#21
 2-Butanone
 Concen: 49.105 ug/L
 RT: 4.26 min Scan# 985
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Tgt Ion: 43 Resp: 133229
 Ion Ratio Lower Upper
 43 100
 72 21.5 10.8 32.3



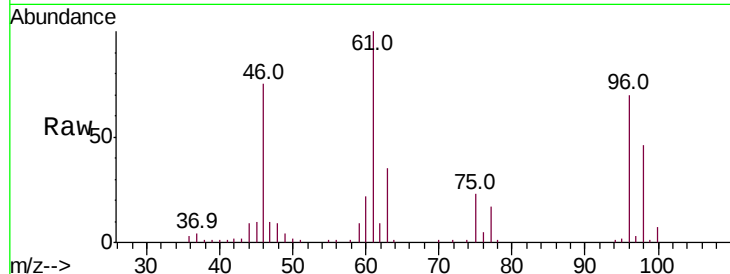


#22

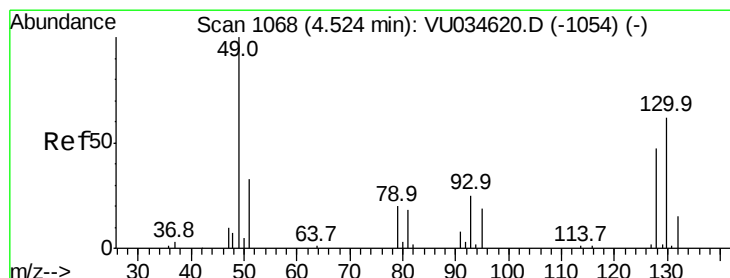
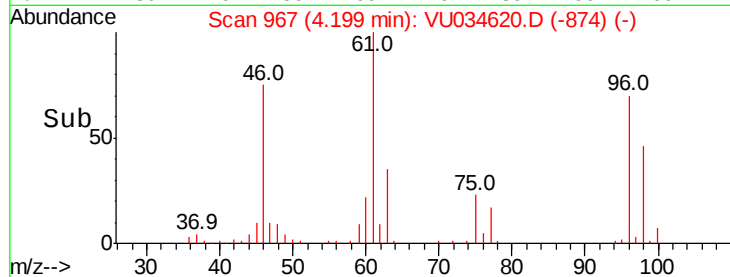
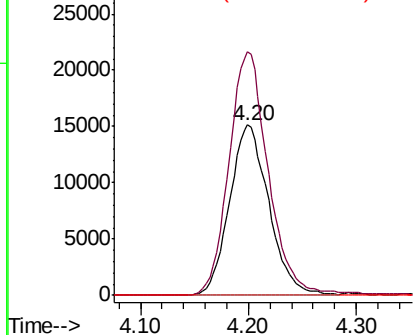
cis-1,2-Dichloroethene
 Concen: 4.670 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 38426
 Ion Ratio Lower Upper
 96 100
 61 142.9 100.0 185.8
 68 0.0 0.0 0.0



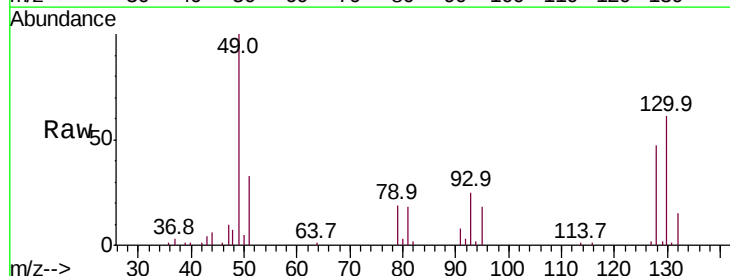
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



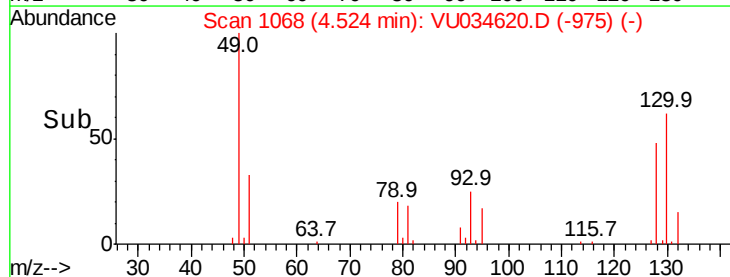
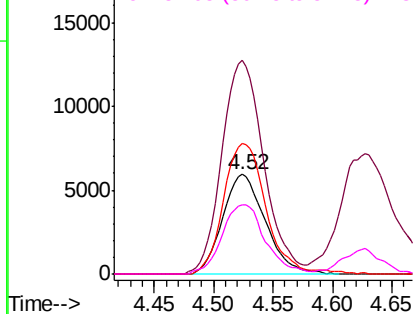
#23

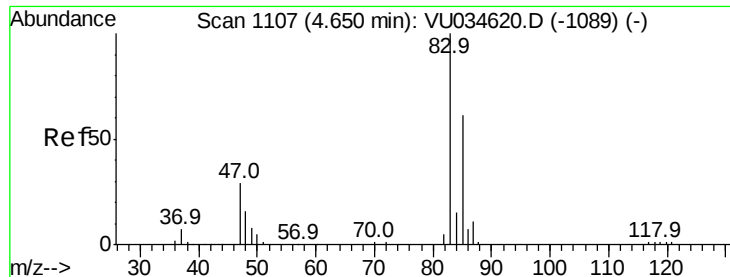
Bromochloromethane
 Concen: 4.378 ug/L
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Tgt Ion: 128 Resp: 14734
 Ion Ratio Lower Upper
 128 100
 49 214.1 149.9 278.3
 130 130.5 91.3 169.6
 51 69.6 55.7 83.5



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

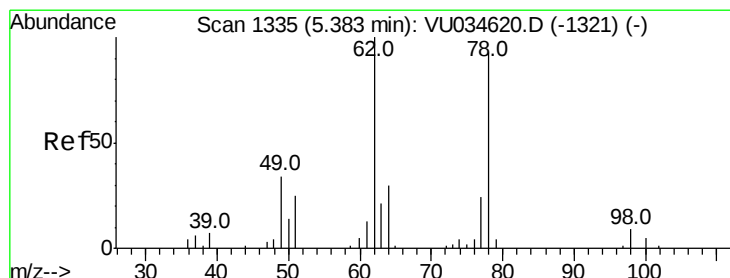
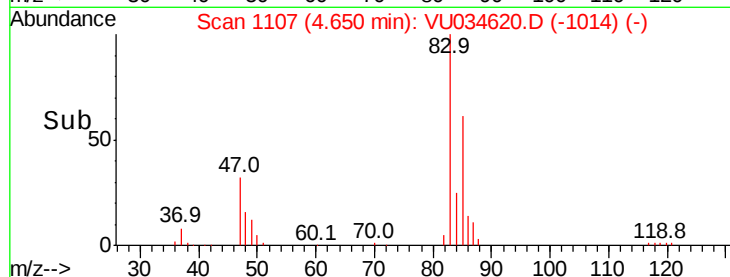
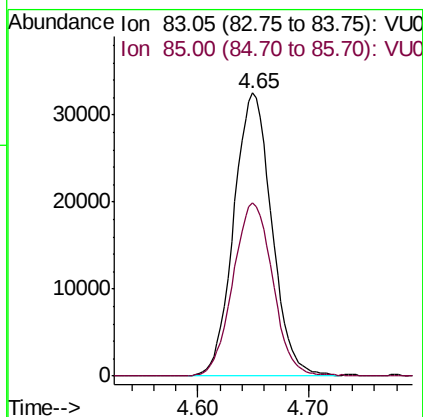
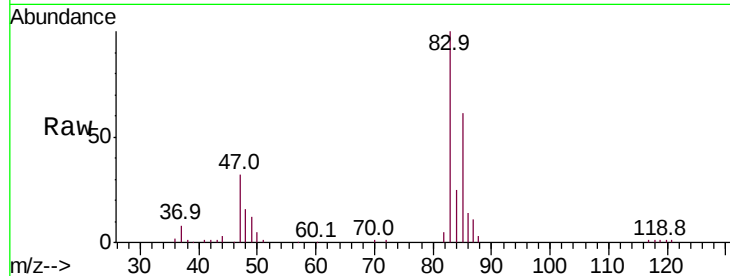




#25
Chloroform
Concen: 5.026 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

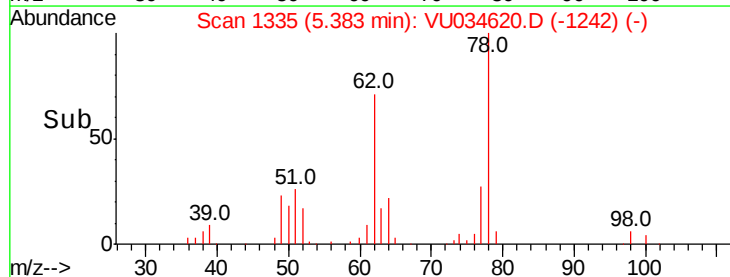
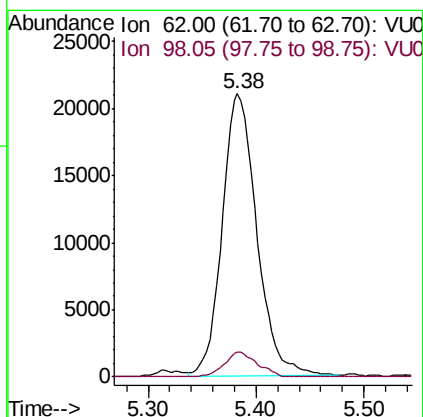
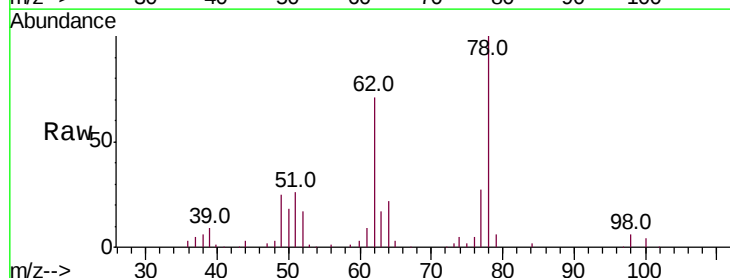
Instrument :
MSVOA_U
ClientSampled :

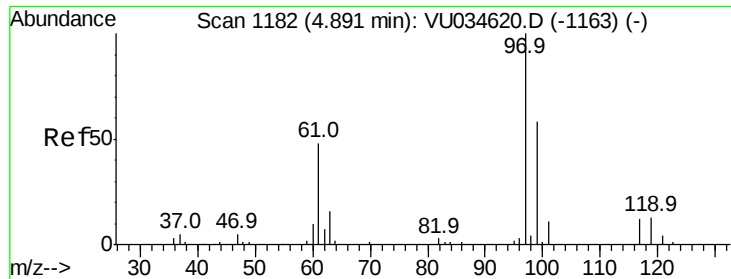
Tot Ion: 83 Resp: 77663
Ion Ratio Lower Upper
83 100
85 61.1 42.8 79.4



#27
1,2-Dichloroethane
Concen: 5.199 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Tgt Ion: 62 Resp: 46761
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

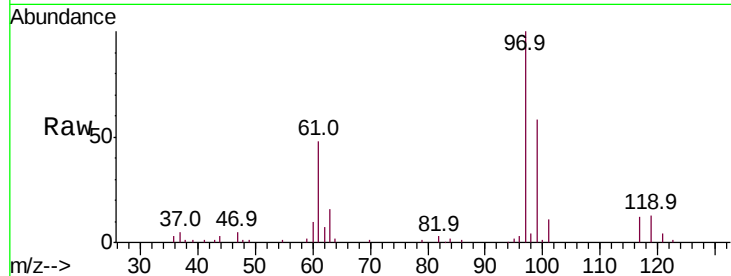




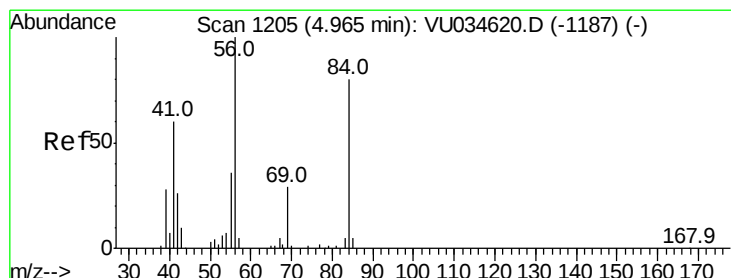
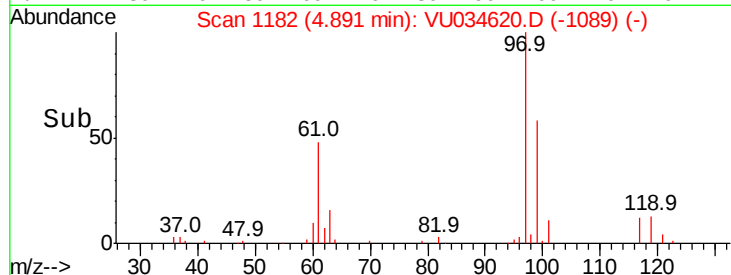
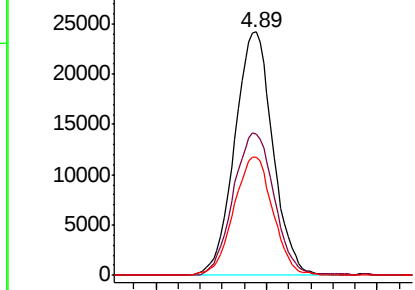
#29
1,1,1-Trichloroethane
Concen: 5.150 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 57979
Ion Ratio Lower Upper
97 100
99 62.5 50.0 75.0
61 49.7 39.8 59.6

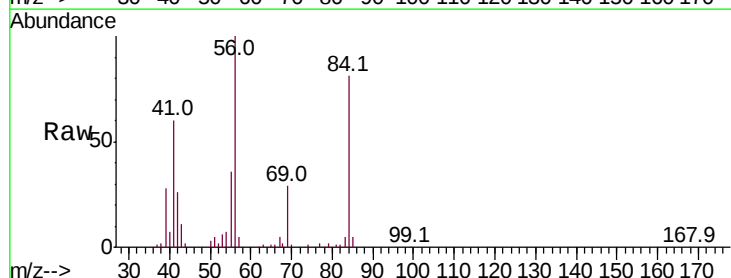


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

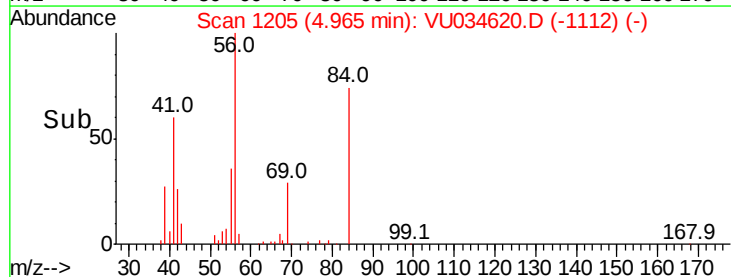
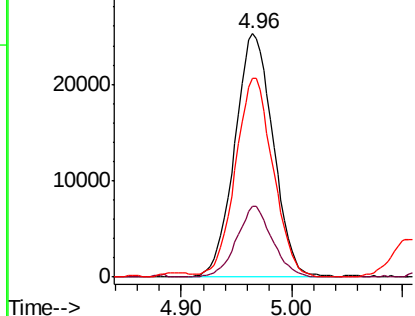


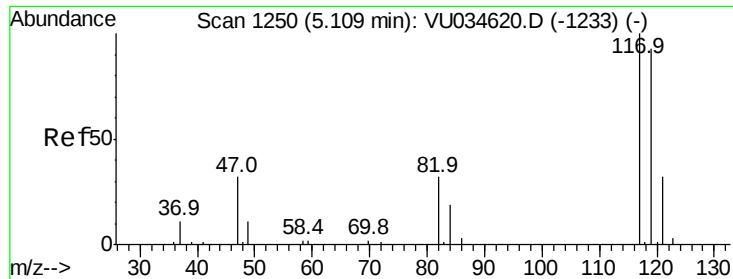
#30
Cyclohexane
Concen: 6.346 ug/L
RT: 4.96 min Scan# 1205
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Tgt Ion: 56 Resp: 60899
Ion Ratio Lower Upper
56 100
69 26.8 21.4 32.2
84 80.2 64.2 96.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.287 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

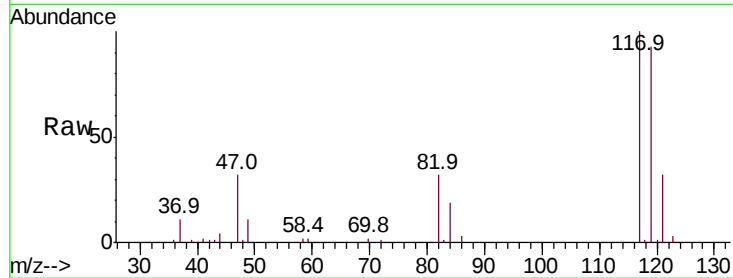
ClientSampled :

Tot Ion:117 Resp: 46958

Ion Ratio Lower Upper

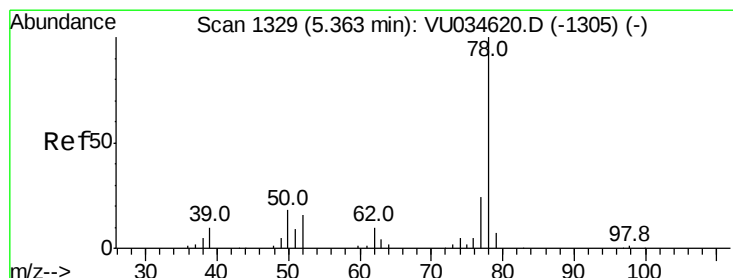
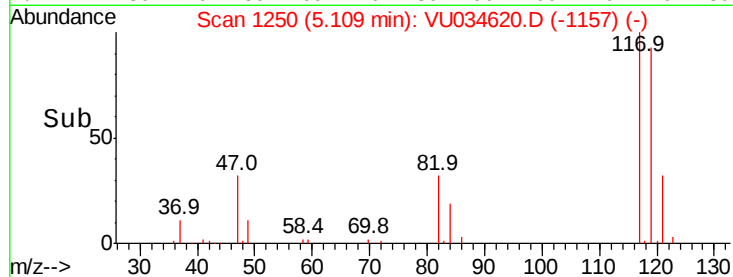
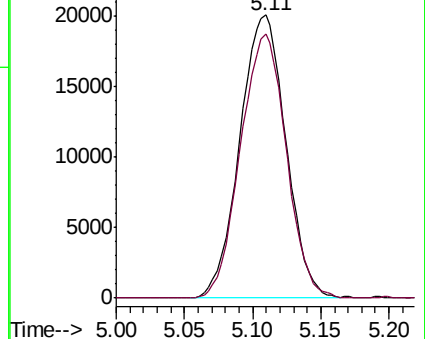
117 100

119 92.8 74.2 111.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.882 ug/L

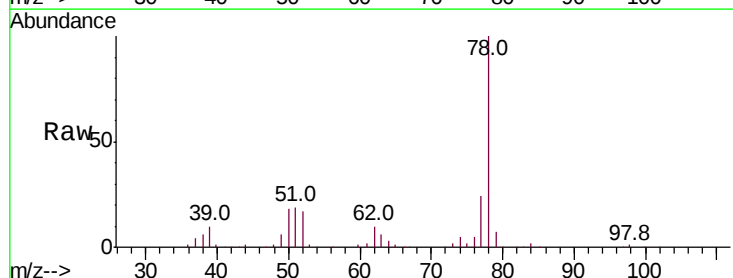
RT: 5.36 min Scan# 1329

Delta R.T. 0.00 min

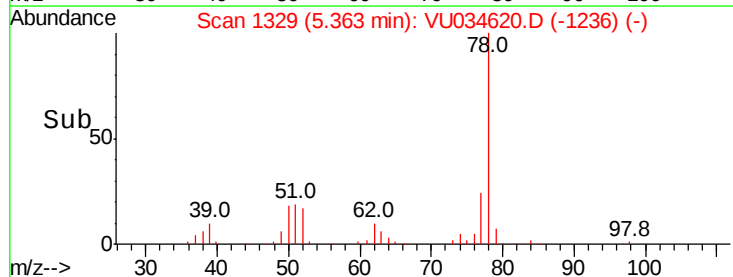
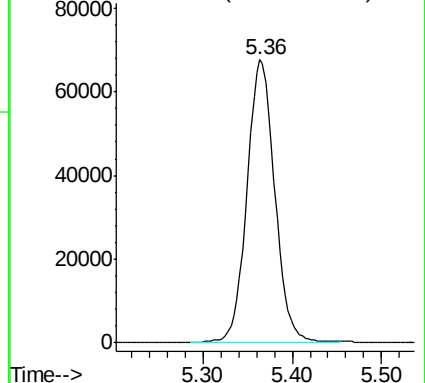
Lab File: VU034620.D

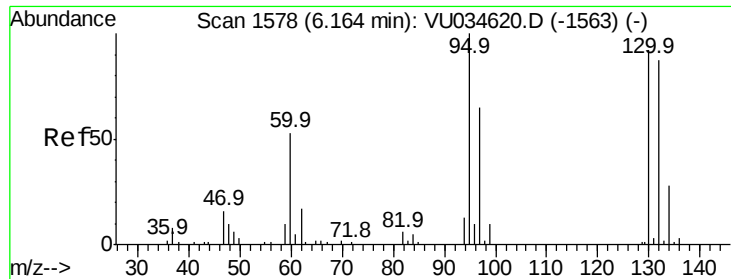
Acq: 17 Sep 2019 17:13

Tgt Ion: 78 Resp: 146799



Abundance Ion 78.10 (77.80 to 78.80): VU0

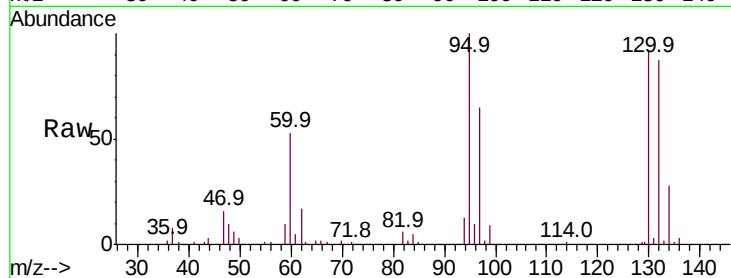




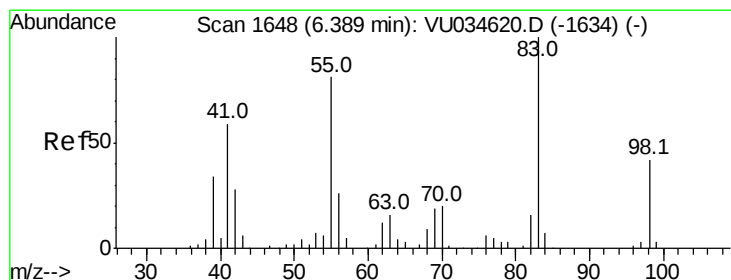
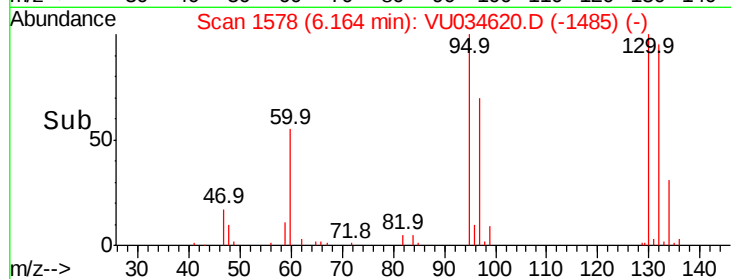
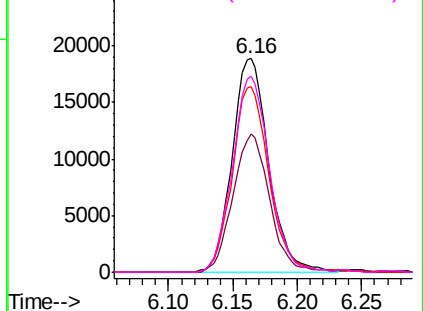
#34
 Trichloroethene
 Concen: 4.939 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	95	Resp:	37157
Ion	Ratio	Lower	Upper
95	100		
97	64.6	45.2	84.0
132	87.0	60.9	113.1
130	91.8	64.3	119.3

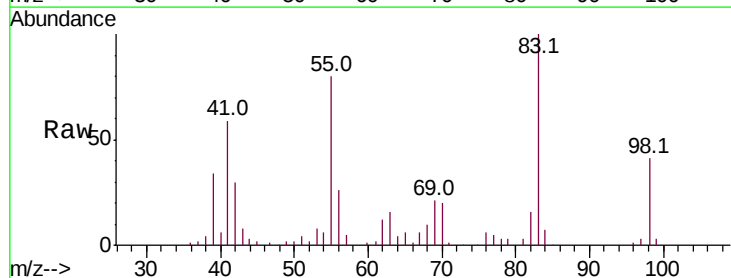


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

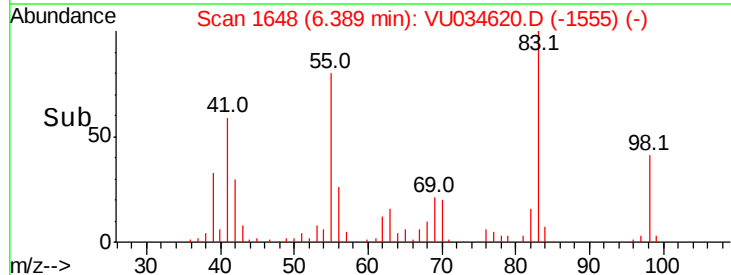
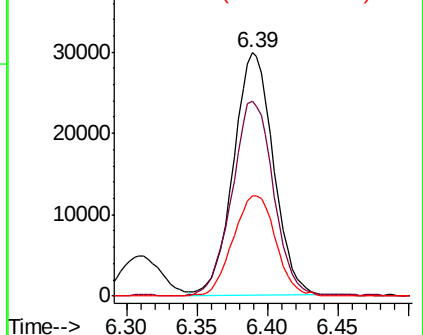


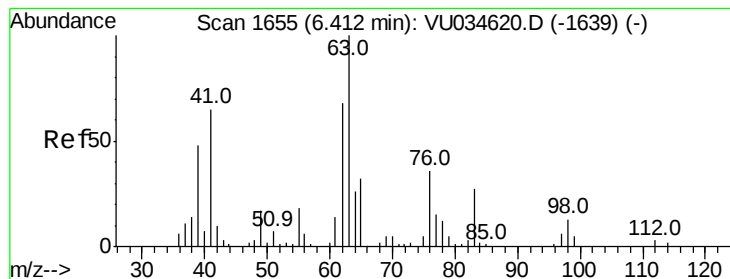
#35
 Methylcyclohexane
 Concen: 6.020 ug/L
 RT: 6.39 min Scan# 1648
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Tgt Ion:	83	Resp:	59143
Ion	Ratio	Lower	Upper
83	100		
55	83.5	66.8	100.2
98	44.2	35.4	53.0



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





#37

1,2-Dichloropropane

Concen: 5.033 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

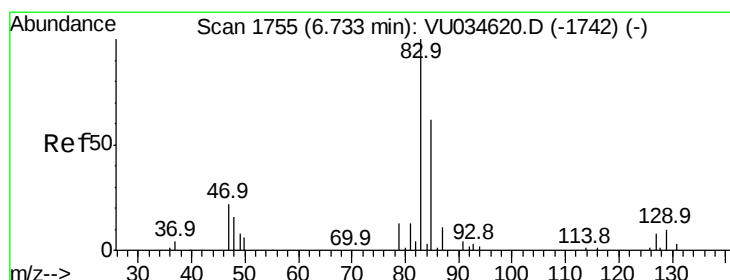
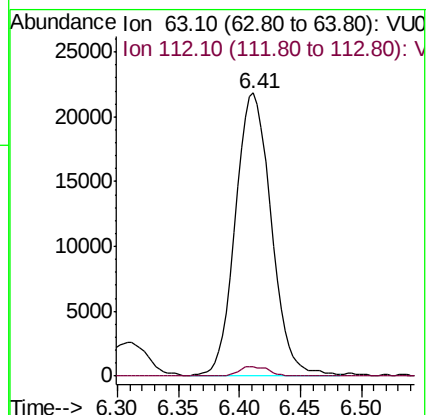
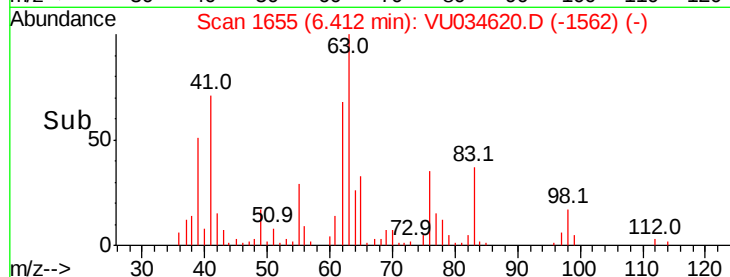
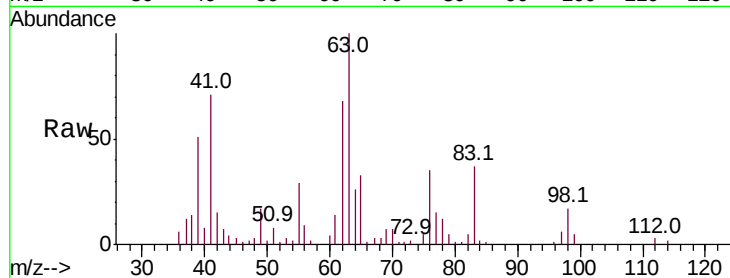
ClientSampled :

Tot Ion: 63 Resp: 44695

Ion Ratio Lower Upper

63 100

112 2.7 2.2 3.2



#38

Bromodichloromethane

Concen: 4.824 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

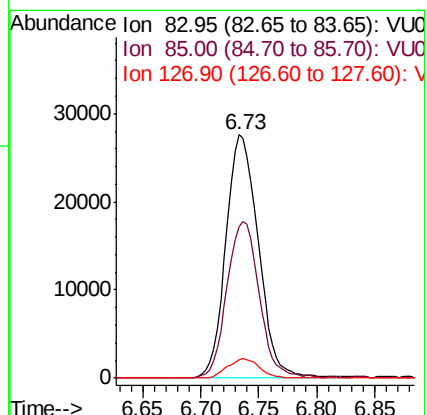
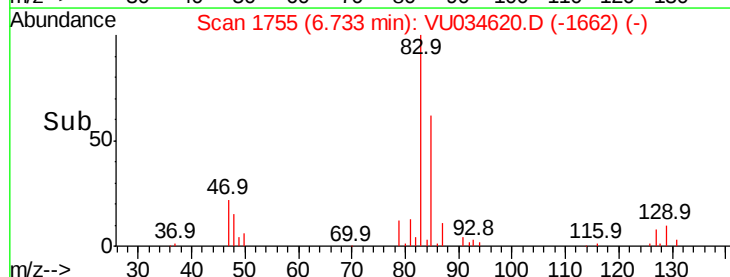
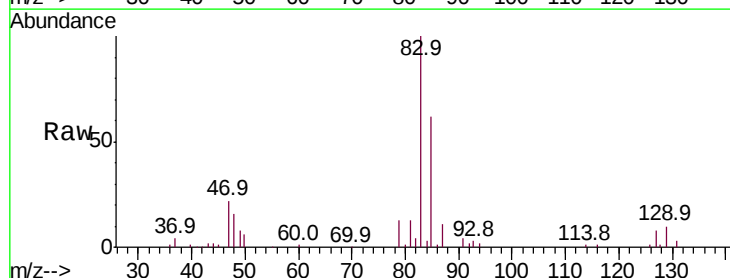
Tgt Ion: 83 Resp: 53586

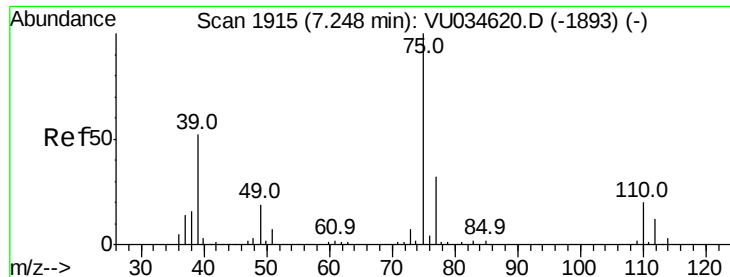
Ion Ratio Lower Upper

83 100

85 62.0 43.4 80.6

127 7.7 6.2 9.2

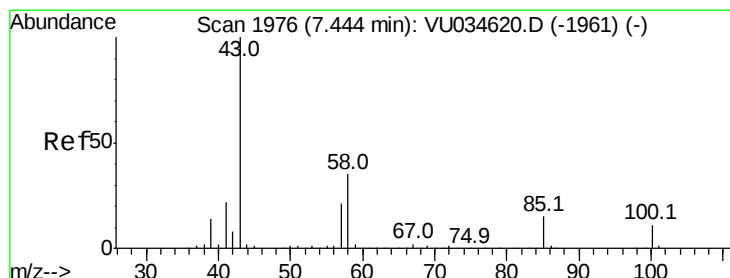
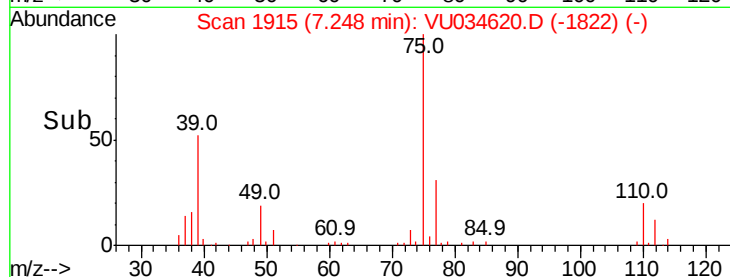
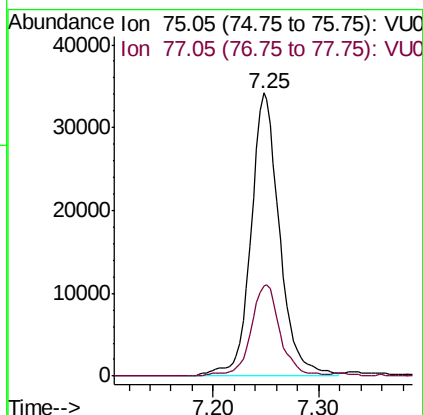
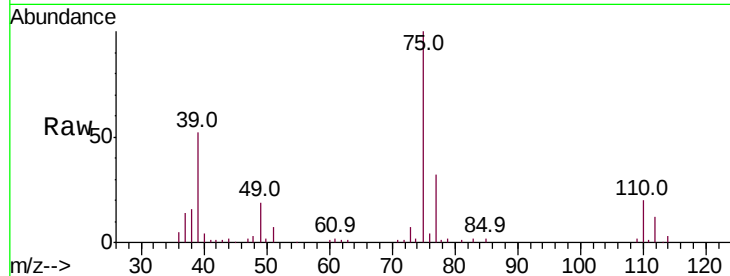




#39
 cis-1,3-Dichloropropene
 Concen: 4.906 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

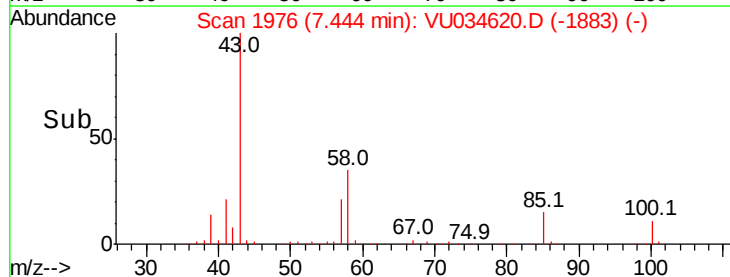
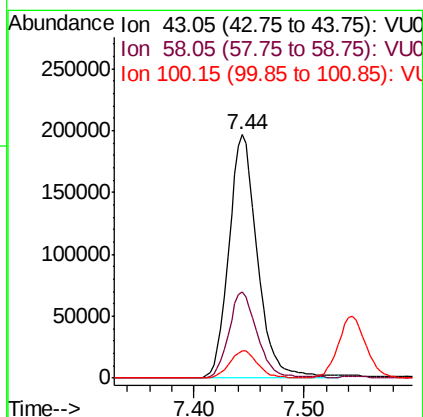
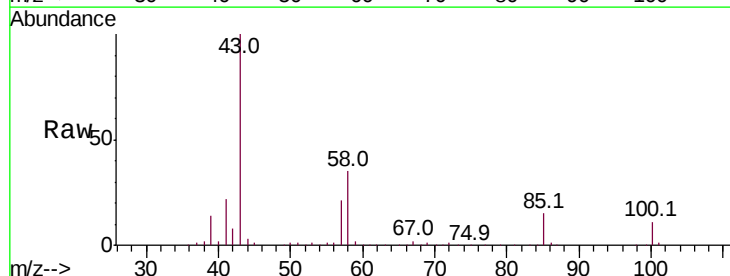
Instrument :
 MSVOA_U
 ClientSampleId :

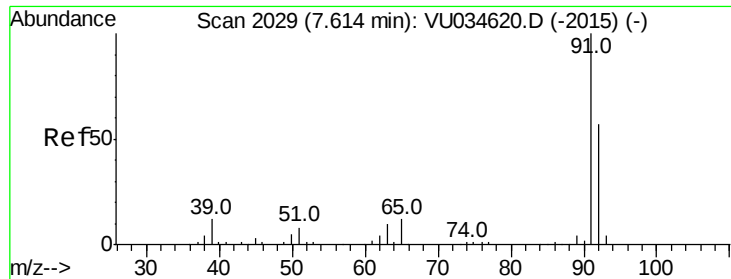
Tot Ion: 75 Resp: 64792
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 48.598 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Tgt Ion: 43 Resp: 351761
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.6 42.8
 100 11.1 8.9 13.3





#42

Toluene

Concen: 4.965 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

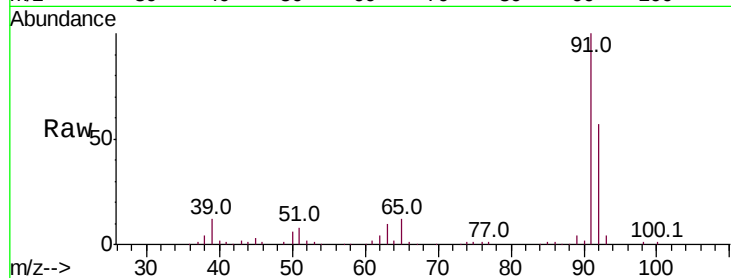
ClientSampleId :

Tot Ion: 91 Resp: 158481

Ion Ratio Lower Upper

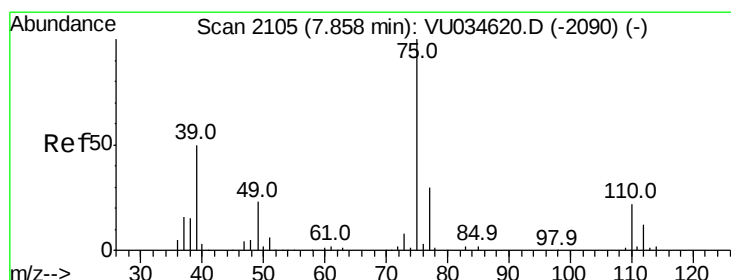
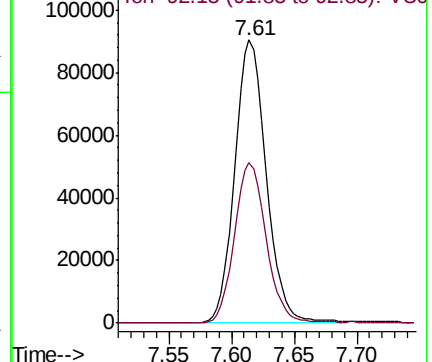
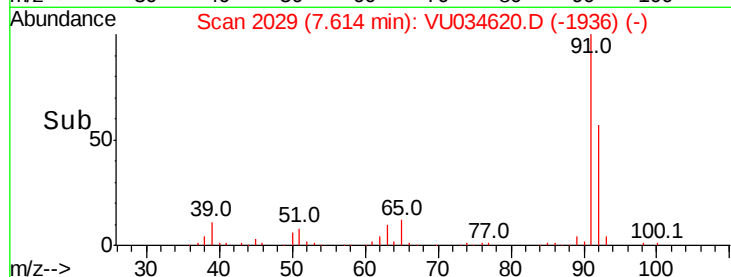
91 100

92 56.6 39.6 73.6



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

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



#44

trans-1,3-Dichloropropene

Concen: 4.709 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU034620.D

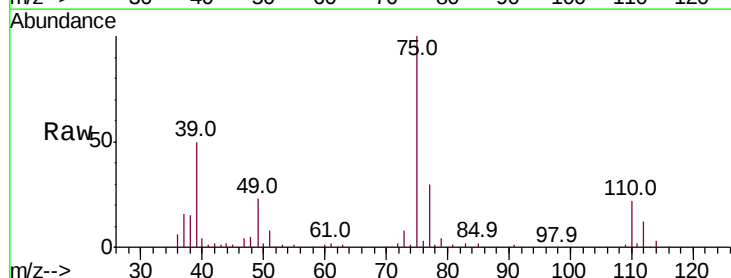
Acq: 17 Sep 2019 17:13

Tgt Ion: 75 Resp: 51641

Ion Ratio Lower Upper

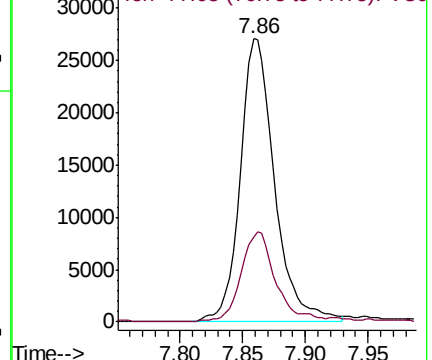
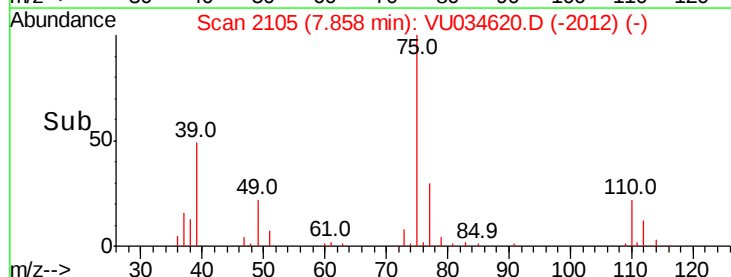
75 100

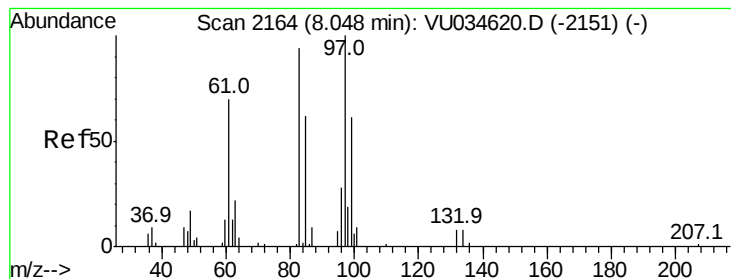
77 30.2 21.1 39.3



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

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





#45

1,1,2-Trichloroethane

Concen: 4.648 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 29006

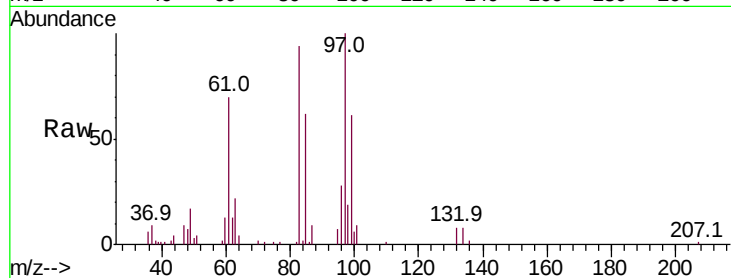
Ion Ratio Lower Upper

97 100

99 60.7 42.5 78.9

83 94.2 65.9 122.5

85 62.2 43.5 80.9



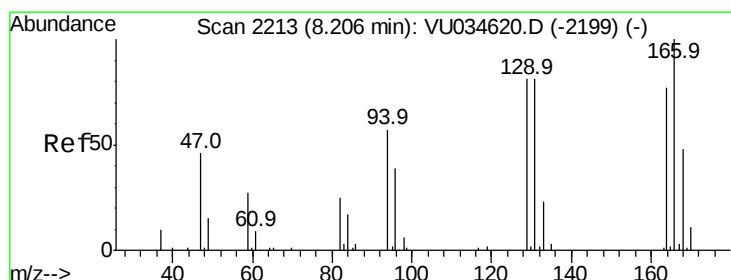
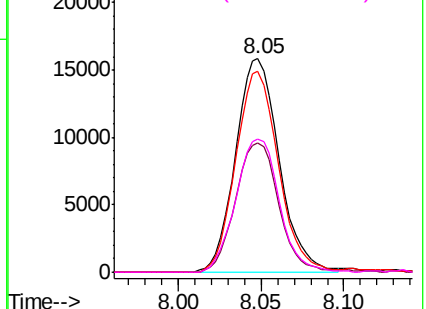
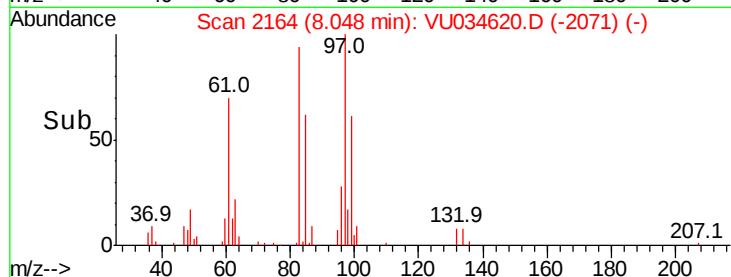
Abundance

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: 4.902 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Tgt Ion: 164 Resp: 22504

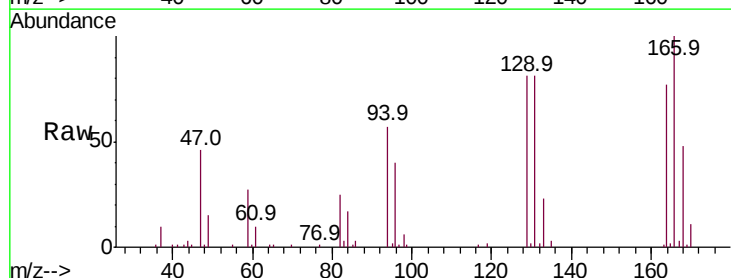
Ion Ratio Lower Upper

164 100

129 105.2 73.6 136.8

131 104.9 73.4 136.4

166 129.5 90.6 168.3



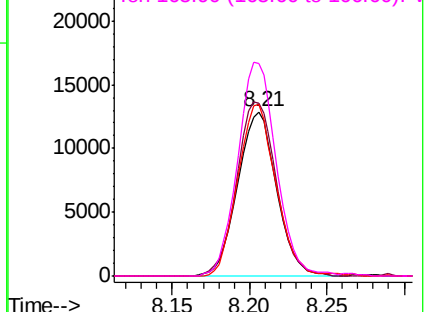
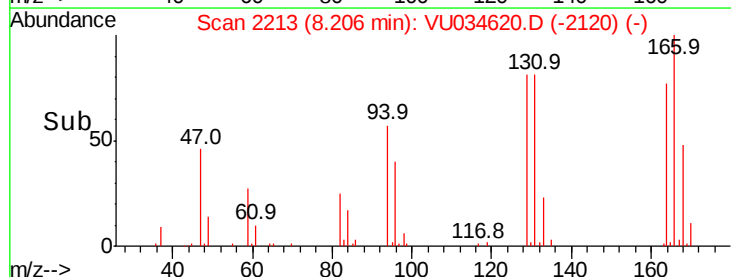
Abundance

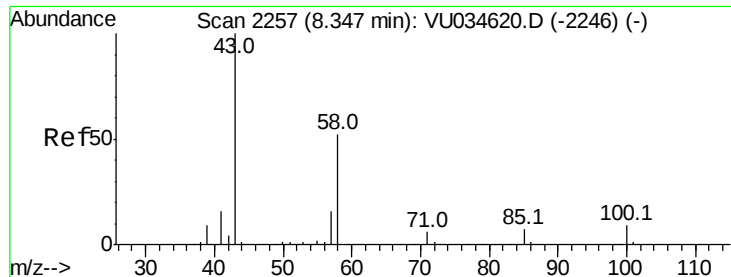
Ion 163.90 (163.60 to 164.60): V

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

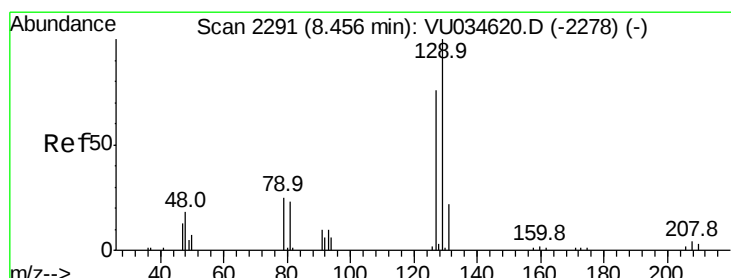
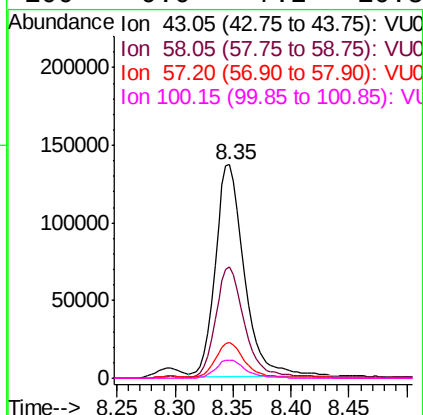
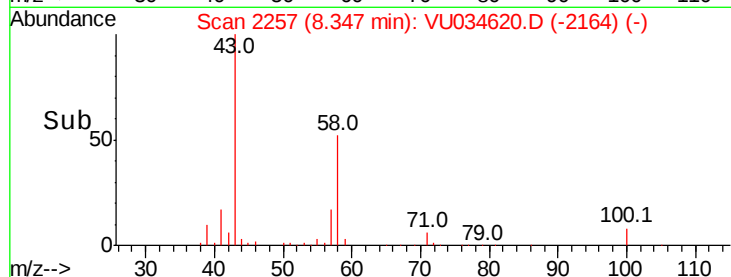
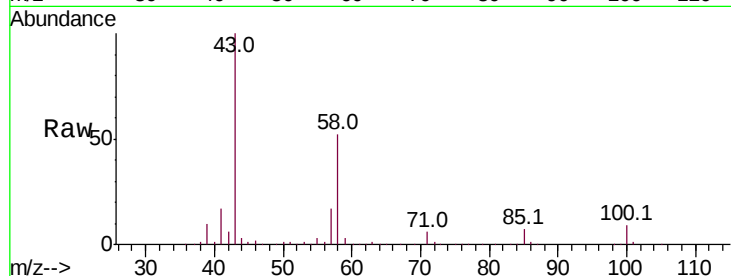




#48
2-Hexanone
Concen: 48.694 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

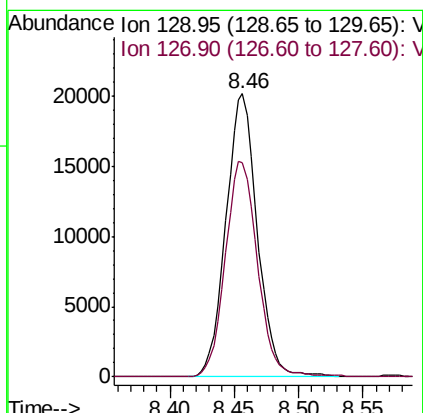
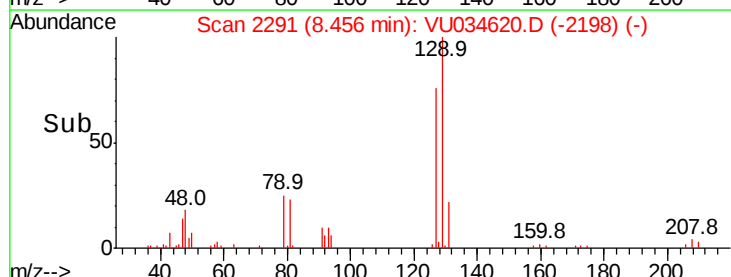
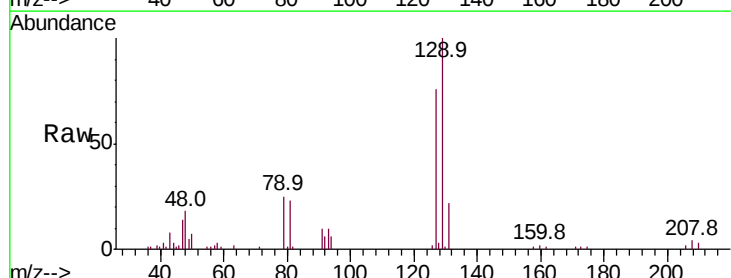
Instrument :
MSVOA_U
ClientSampled :

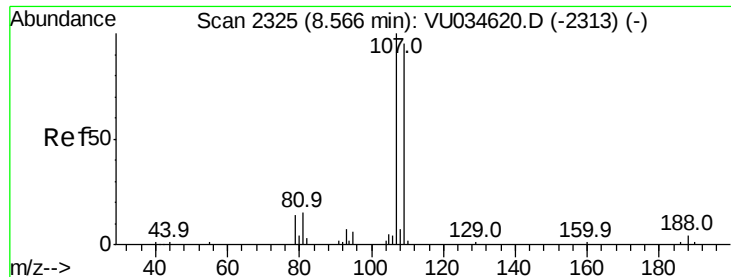
Tot Ion: 43 Resp: 238347
Ion Ratio Lower Upper
43 100
58 51.5 41.2 61.8
57 16.6 13.3 19.9
100 9.0 7.2 10.8



#49
Dibromochloromethane
Concen: 4.534 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Tgt Ion: 129 Resp: 34043
Ion Ratio Lower Upper
129 100
127 75.7 53.0 98.4

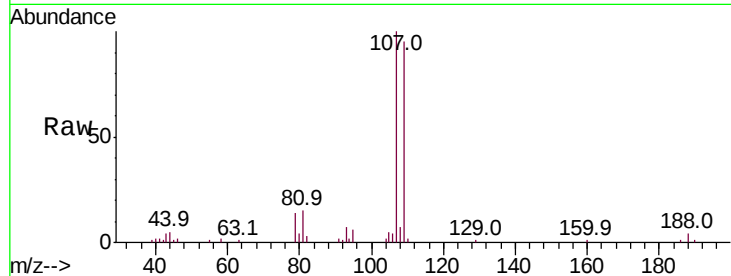




#50
1,2-Dibromoethane
Concen: 4.543 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	66.3	123.1
188	3.6	2.9	4.3

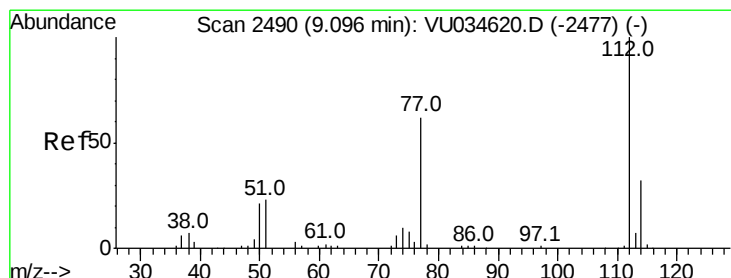
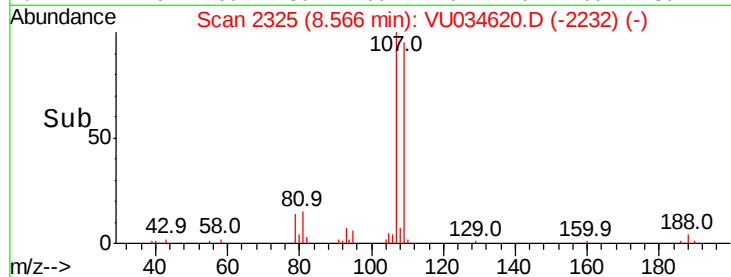
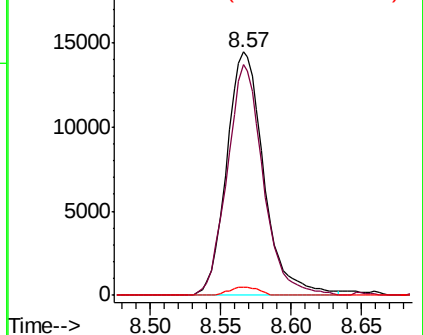


Abundance

Ion 106.95 (106.65 to 107.65): V

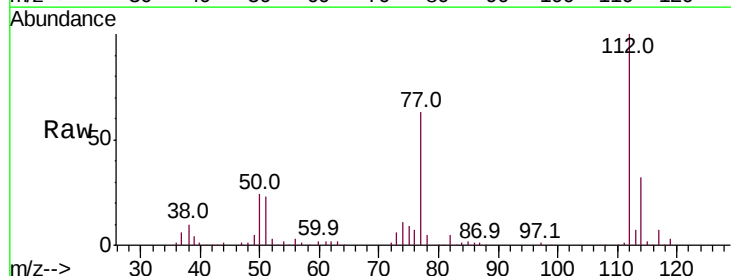
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 4.909 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034620.D
Acq: 17 Sep 2019 17:13

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	62.9	50.3	75.5

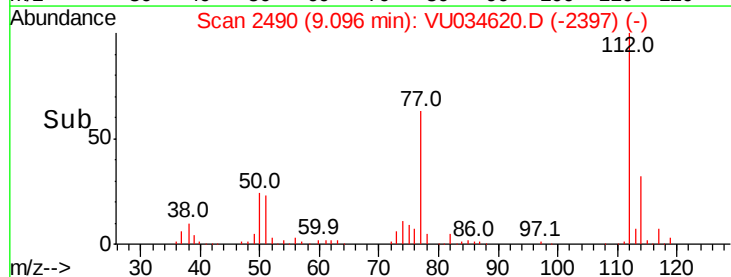
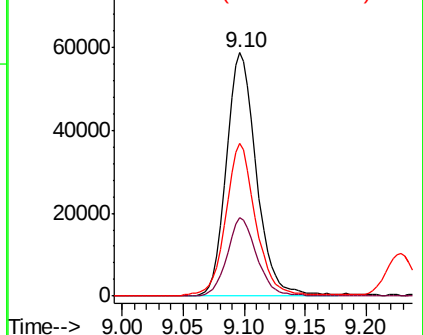


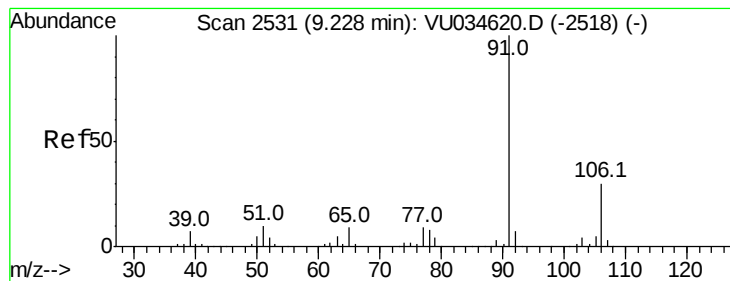
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.085 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

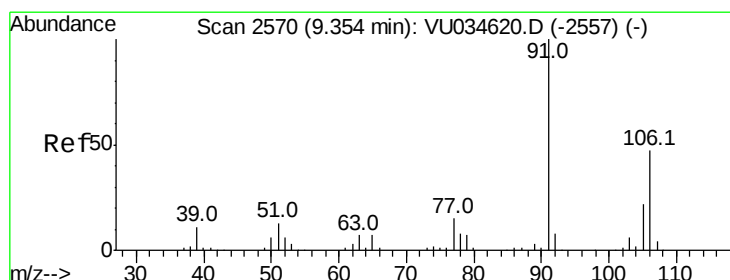
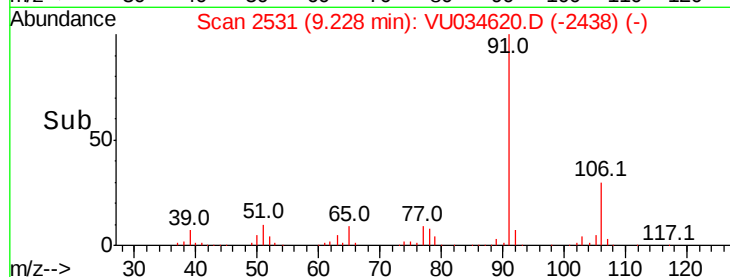
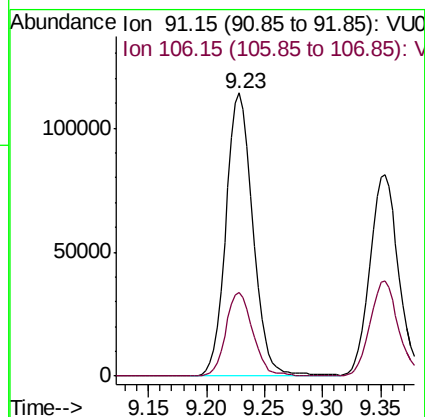
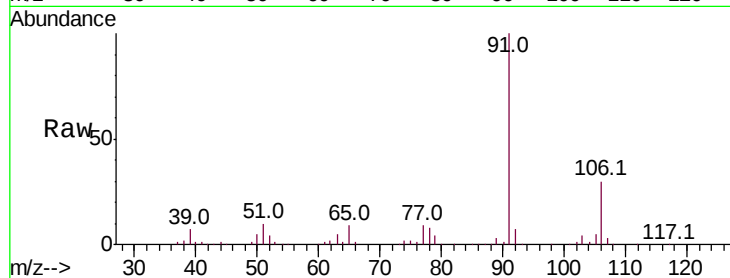
ClientSampled :

Tot Ion: 91 Resp: 184620

Ion Ratio Lower Upper

91 100

106 29.8 20.9 38.7



#53

m,p-Xylene

Concen: 4.920 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034620.D

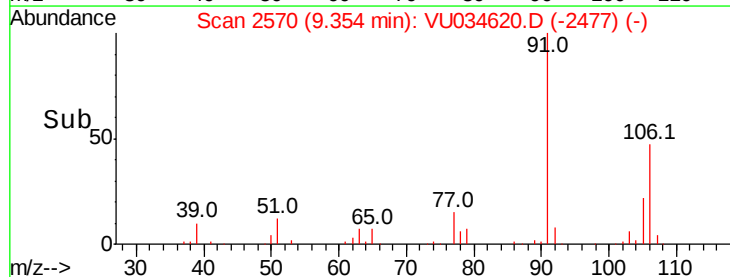
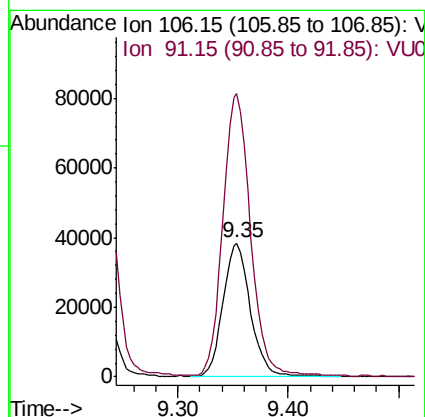
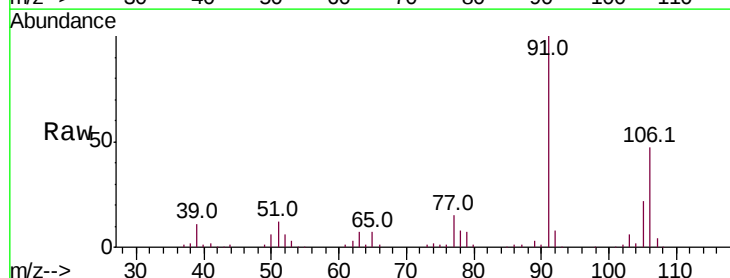
Acq: 17 Sep 2019 17:13

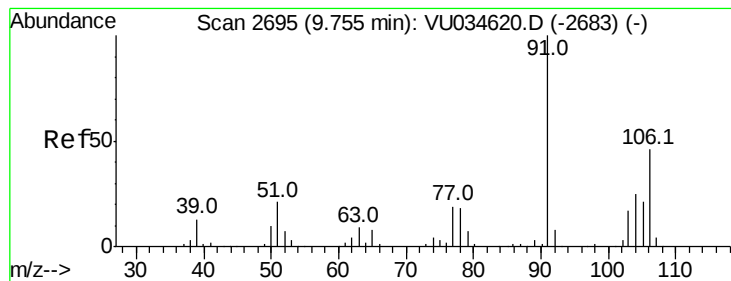
Tgt Ion:106 Resp: 65098

Ion Ratio Lower Upper

106 100

91 211.1 147.8 274.4





#54

o-Xylene

Concen: 4.846 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

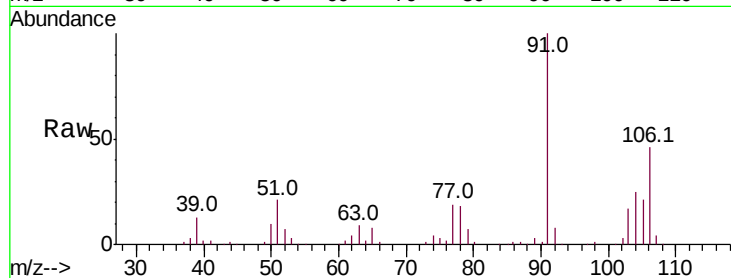
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 65633

Ion Ratio Lower Upper

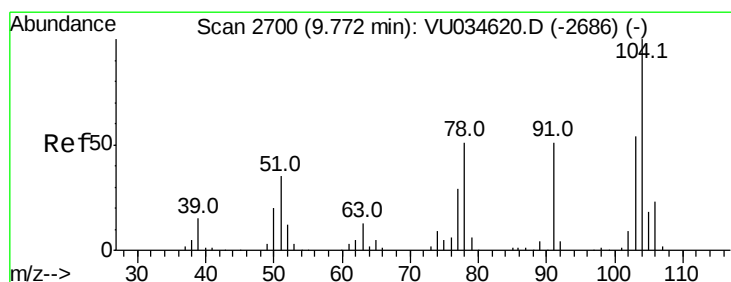
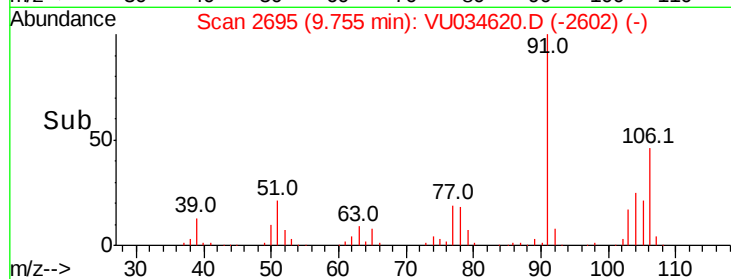
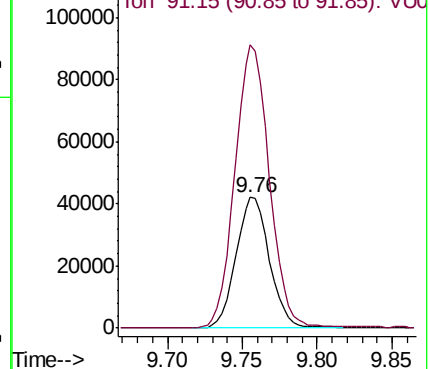
106 100

91 217.0 151.9 282.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.804 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU034620.D

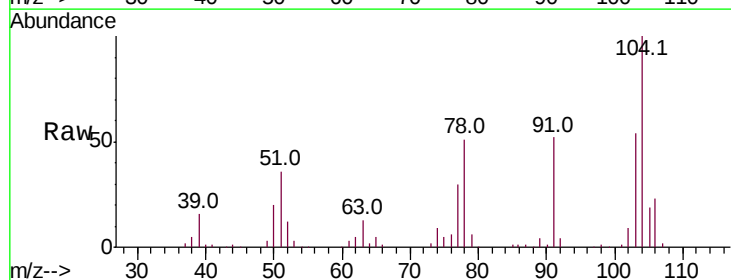
Acq: 17 Sep 2019 17:13

Tgt Ion:104 Resp: 110619

Ion Ratio Lower Upper

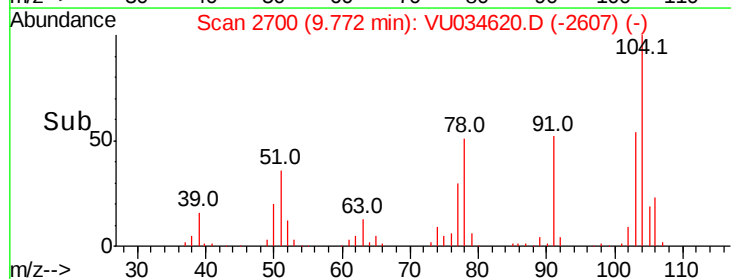
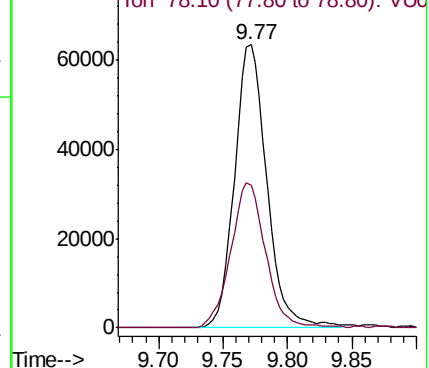
104 100

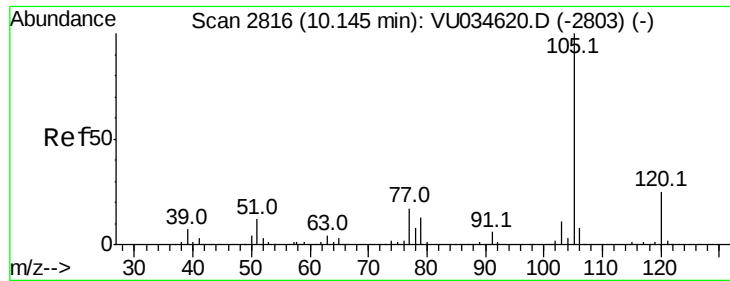
78 50.6 35.4 65.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.206 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

ClientSampleId :

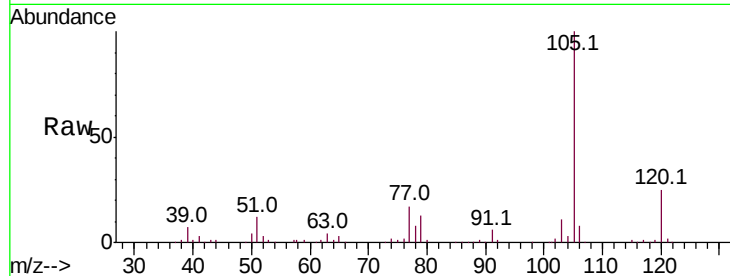
Tot Ion:105 Resp: 183656

Ion Ratio Lower Upper

105 100

120 24.7 19.8 29.6

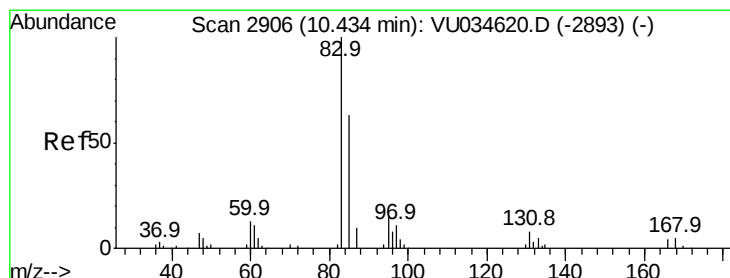
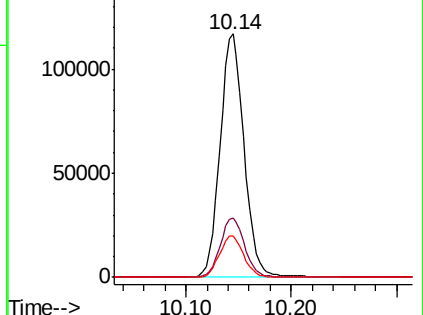
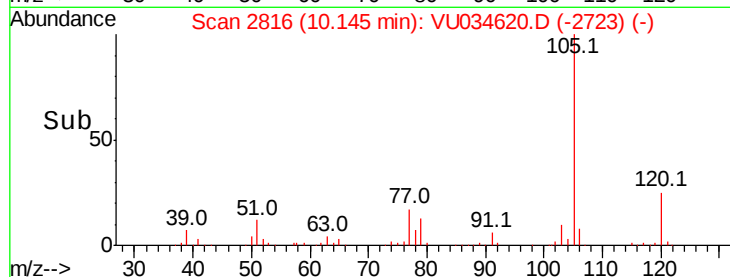
77 17.4 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.795 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

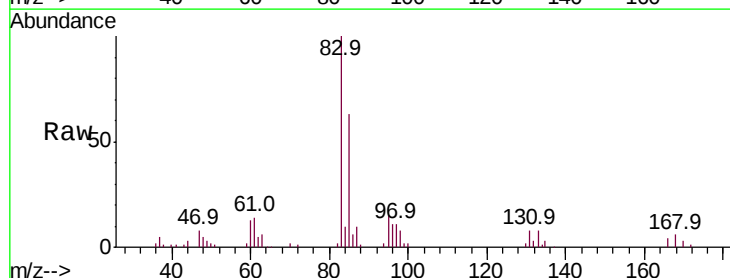
Tgt Ion: 83 Resp: 44076

Ion Ratio Lower Upper

83 100

85 63.4 44.4 82.4

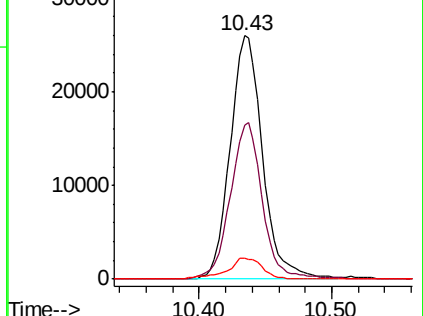
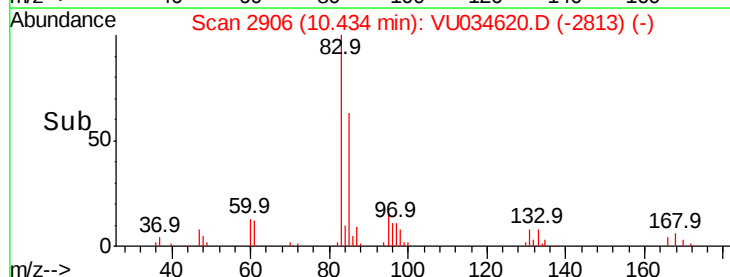
131 8.4 6.7 10.1

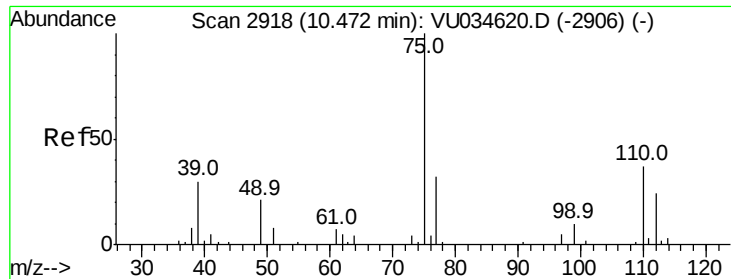


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.738 ug/L

RT: 10.47 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

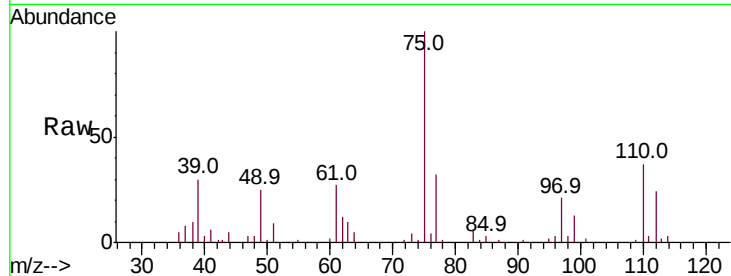
ClientSampleId :

Tot Ion: 75 Resp: 29745

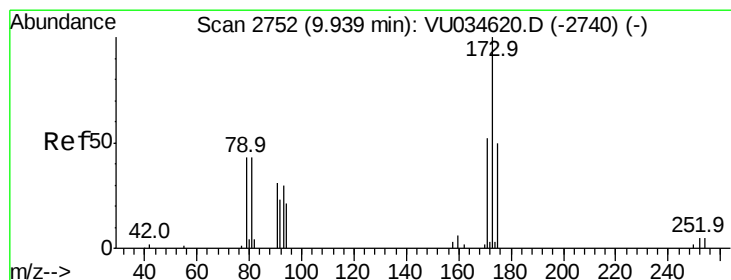
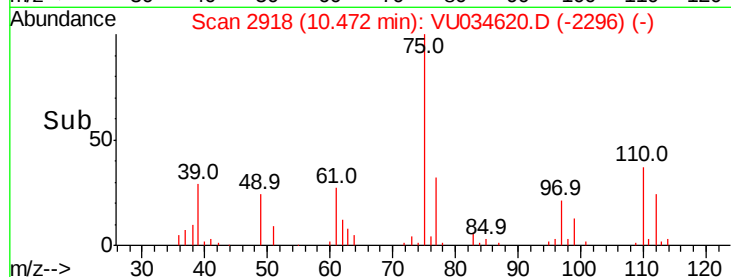
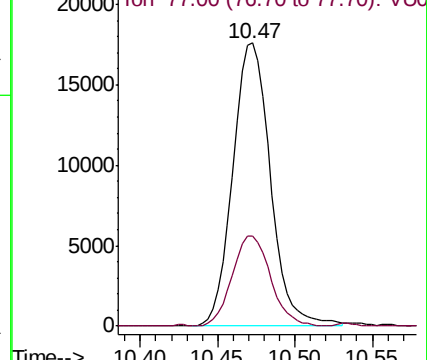
Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU034620.D (-2906) (-)



#61

Bromoform

Concen: 4.173 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

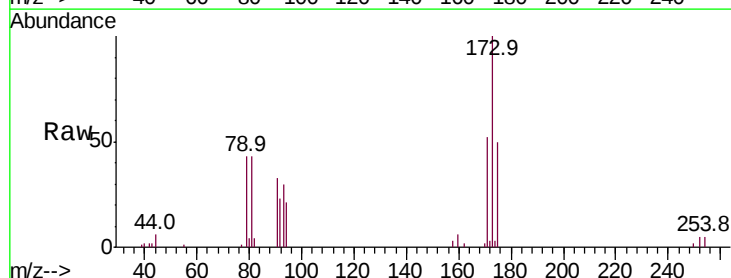
Tgt Ion: 173 Resp: 16588

Ion Ratio Lower Upper

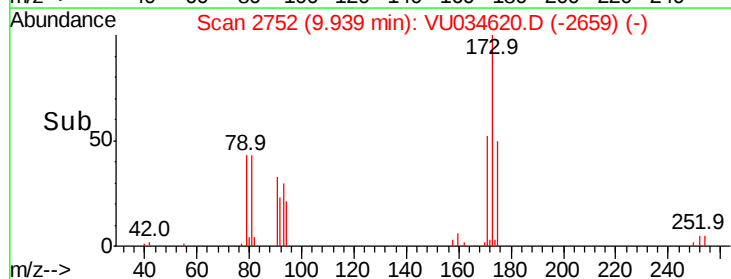
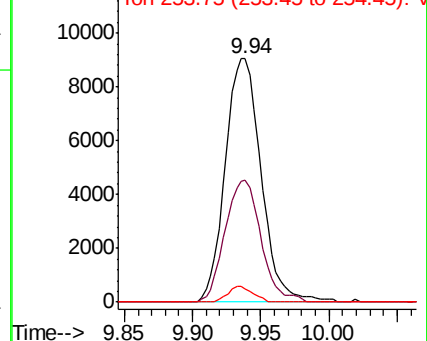
173 100

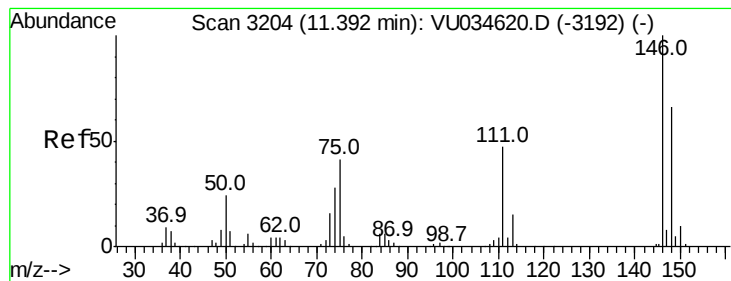
175 50.0 40.0 60.0

254 4.4 3.5 5.3



Abundance Ion 172.90 (172.60 to 173.60): VU034620.D (-2740) (-)





#62

1,3-Dichlorobenzene

Concen: 4.657 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

ClientSampled :

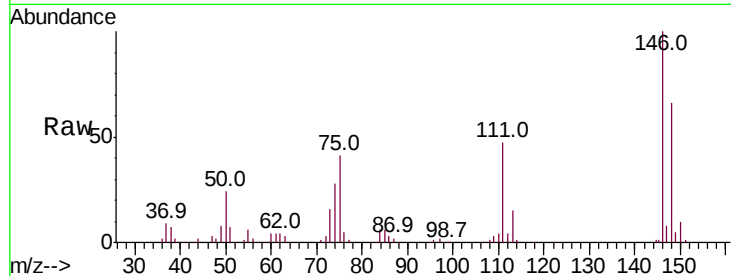
Tot Ion:146 Resp: 72527

Ion Ratio Lower Upper

146 100

111 46.9 32.8 61.0

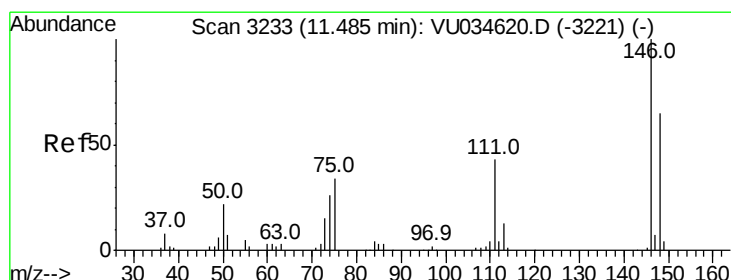
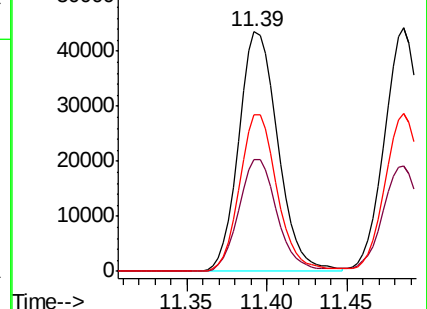
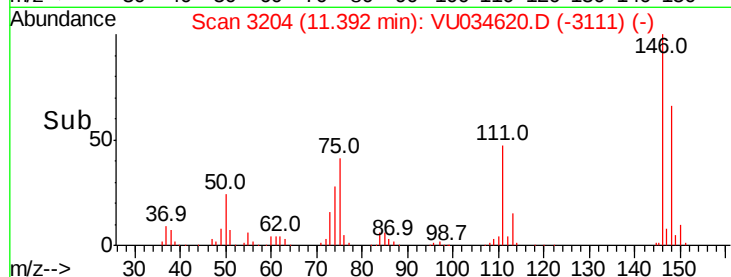
148 65.6 45.9 85.3



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



#63

1,4-Dichlorobenzene

Concen: 4.735 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

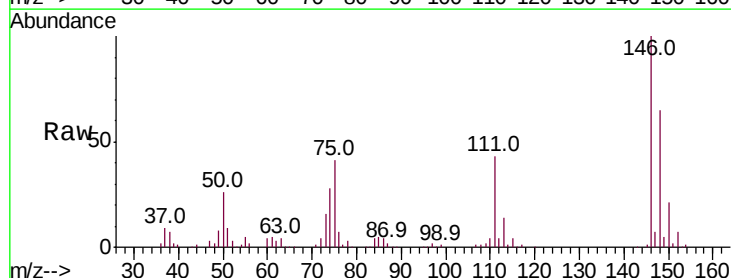
Tgt Ion:146 Resp: 73551

Ion Ratio Lower Upper

146 100

111 43.2 30.2 56.2

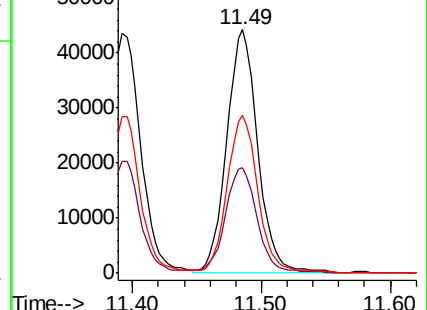
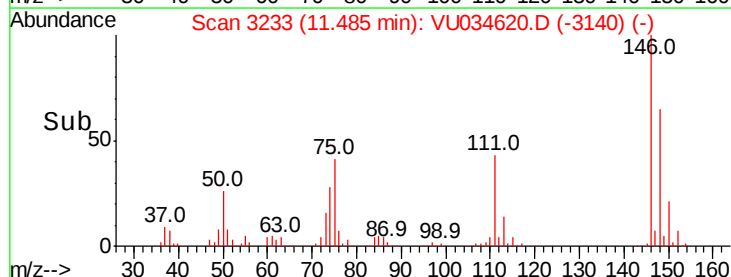
148 64.9 45.4 84.4

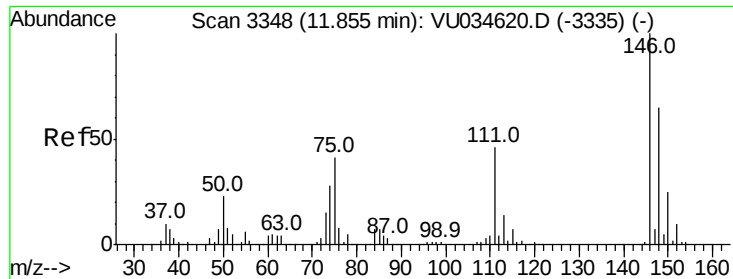


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.749 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

ClientSampled :

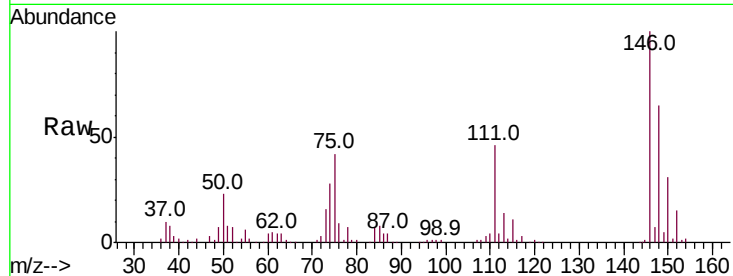
Tot Ion:146 Resp: 70515

Ion Ratio Lower Upper

146 100

111 46.4 37.1 55.7

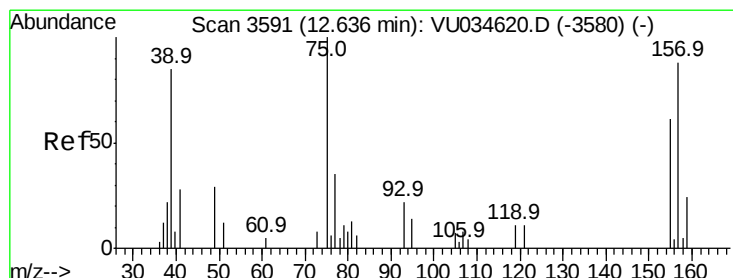
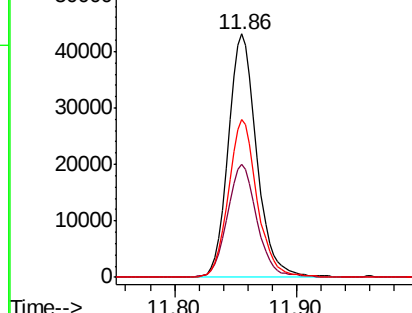
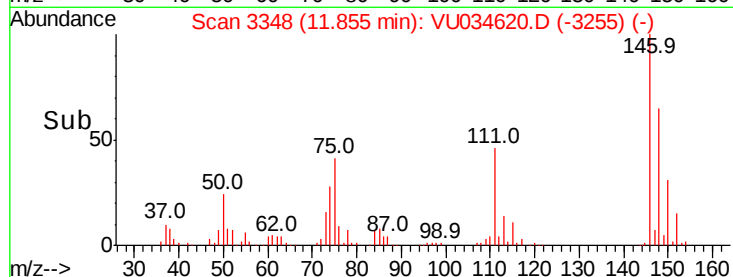
148 64.7 51.8 77.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.679 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

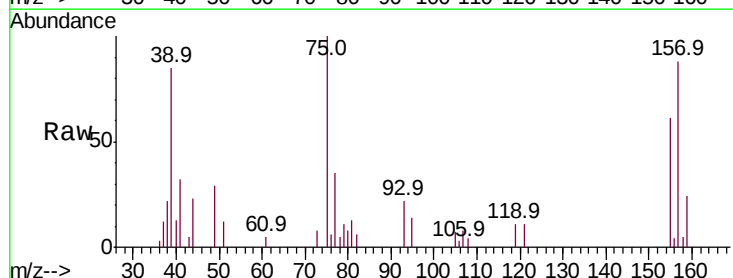
Tgt Ion: 75 Resp: 6942

Ion Ratio Lower Upper

75 100

155 61.4 49.1 73.7

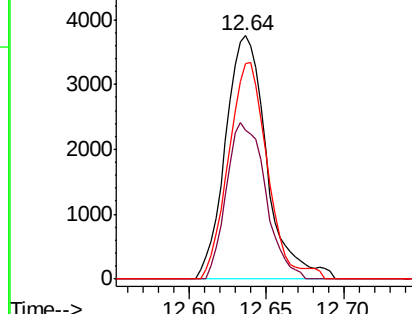
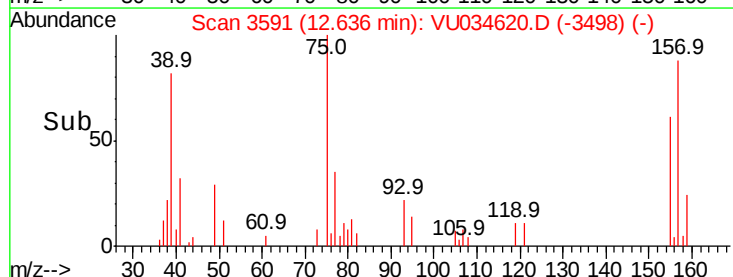
157 88.5 70.8 106.2

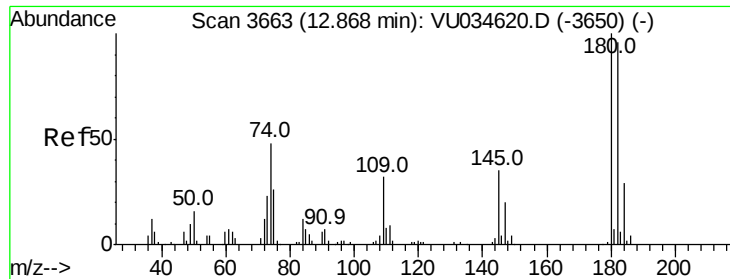


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

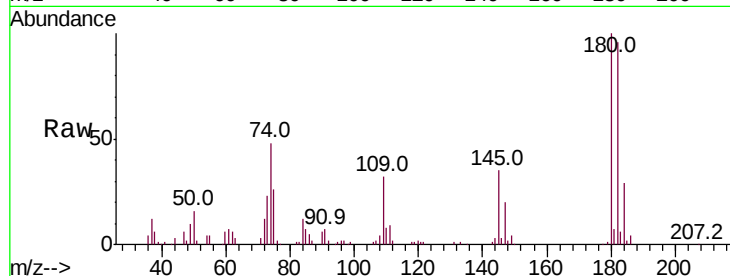




#67
 1,3,5-Trichlorobenzene
 Concen: 4.691 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	74.5	111.7
184	29.3	23.4	35.2
145	33.7	27.0	40.4



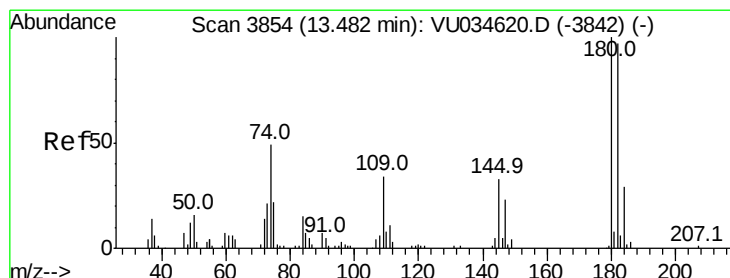
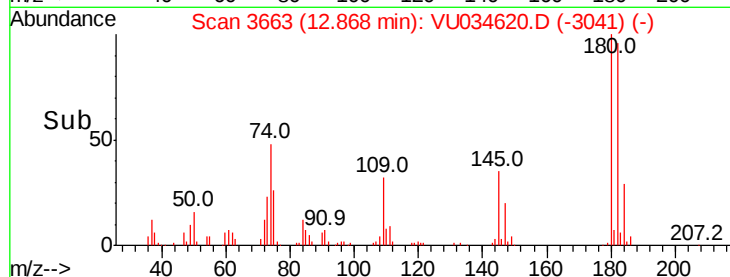
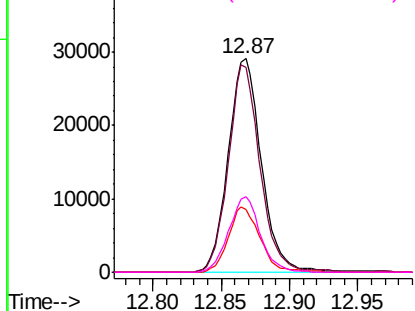
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

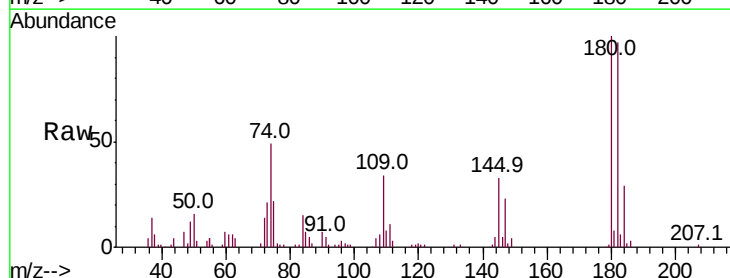
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.732 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034620.D
 Acq: 17 Sep 2019 17:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.9	115.3
145	32.8	26.2	39.4

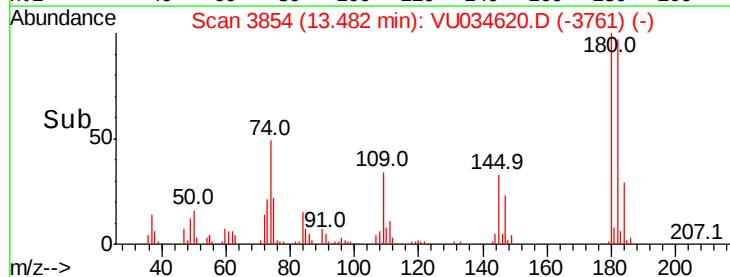
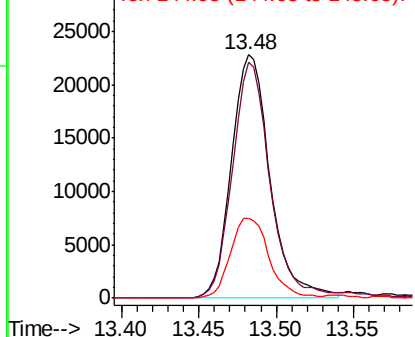


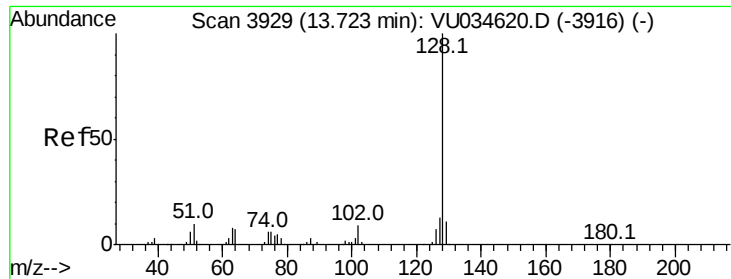
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.569 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

Instrument :

MSVOA_U

ClientSampleId :

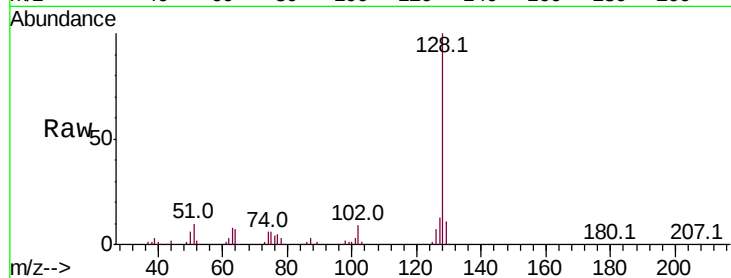
Tot Ion:128 Resp: 84729

Ion Ratio Lower Upper

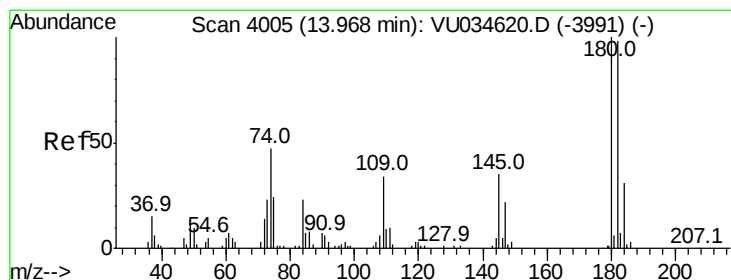
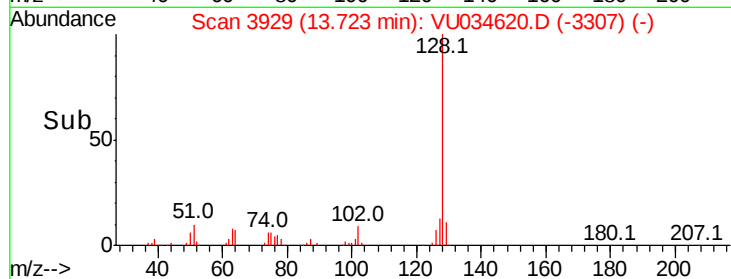
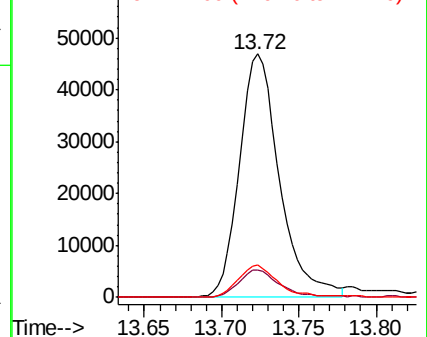
128 100

129 11.5 9.2 13.8

127 13.4 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: 4.591 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034620.D

Acq: 17 Sep 2019 17:13

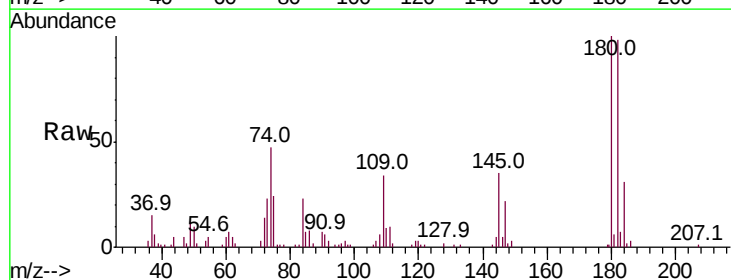
Tgt Ion:180 Resp: 36848

Ion Ratio Lower Upper

180 100

182 95.7 76.6 114.8

145 36.1 28.9 43.3



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

