

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081919\
 Data File : VU033840.D
 Acq On : 19 Aug 2019 12:34
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 19 15:25:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR081419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 17 01:44:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	179039	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	188505	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	106554	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	94137	4.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.00%
7) Chloroethane-d5	1.67	69	79269	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.00%
11) 1,1-Dichloroethene-d2	2.26	65	44479	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.60%
20) 2-Butanone-d5	4.19	46	195481	49.93	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.86%
24) Chloroform-d	4.62	84	146192	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.29	65	76183	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.32	84	280818	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
36) 1,2-Dichloropropane-d6	6.31	67	86672	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.40%
41) Toluene-d8	7.55	98	269879	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
43) trans-1,3-Dichloropropene-	7.83	79	35048	4.82	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.40%
46) 2-Hexanone-d5	8.30	63	146756	50.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.34%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	74444	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
66) 1,2-Dichlorobenzene-d4	11.84	152	102574	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	126100	4.859 ug/L	98
3) Chloromethane	1.32	50	131402	4.879 ug/L	99
5) Vinyl chloride	1.39	62	143029	4.870 ug/L	99
6) Bromomethane	1.62	94	84800	4.961 ug/L	100
8) Chloroethane	1.69	64	83214	4.797 ug/L	97
9) Trichlorofluoromethane	1.88	101	195127	4.850 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	107285	5.025 ug/L	100
12) 1,1-Dichloroethene	2.27	96	103931	5.038 ug/L	99
13) Acetone	2.35	43	210476	50.442 ug/L #	52
14) Carbon disulfide	2.46	76	330926	4.723 ug/L	100
15) Methyl Acetate	2.61	43	52605	4.850 ug/L	99
16) Methylene chloride	2.68	84	115557	4.798 ug/L	97
17) Methyl tert-butyl Ether	2.98	73	265795	4.976 ug/L	99
18) trans-1,2-Dichloroethene	2.96	96	108881	4.915 ug/L	97
19) 1,1-Dichloroethane	3.42	63	170014	4.909 ug/L	99
21) 2-Butanone	4.28	43	257436	49.832 ug/L	97
22) cis-1,2-Dichloroethene	4.20	96	92188	4.878 ug/L	96

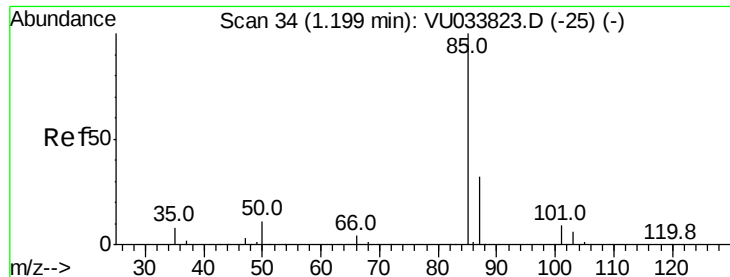
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081919\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 17 01:44:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	45336	5.003	ug/L	95
25) Chloroform	4.65	83	179737	4.822	ug/L	98
27) 1,2-Dichloroethane	5.38	62	113513	4.942	ug/L	98
29) 1,1,1-Trichloroethane	4.89	97	148996	4.857	ug/L	99
30) Cyclohexane	4.97	56	127834	4.604	ug/L	99
31) Carbon tetrachloride	5.11	117	133646	4.896	ug/L	99
33) Benzene	5.36	78	370544	4.915	ug/L	100
34) Trichloroethene	6.16	95	97936	4.953	ug/L	99
35) Methylcyclohexane	6.39	83	141004	4.756	ug/L	99
37) 1,2-Dichloropropane	6.41	63	100611	4.938	ug/L	100
38) Bromodichloromethane	6.74	83	124752	4.856	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	131772	4.793	ug/L	96
40) 4-Methyl-2-pentanone	7.45	43	598131	50.803	ug/L	100
42) Toluene	7.62	91	406224	5.127	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	113230	4.926	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	71582	4.917	ug/L	99
47) Tetrachloroethene	8.21	164	79239	4.807	ug/L	98
48) 2-Hexanone	8.35	43	449382	52.778	ug/L	99
49) Dibromochloromethane	8.46	129	88947	5.039	ug/L	99
50) 1,2-Dibromoethane	8.57	107	67704	4.810	ug/L	95
51) Chlorobenzene	9.10	112	248319	4.868	ug/L	98
52) Ethylbenzene	9.23	91	405125	4.941	ug/L	99
53) m,p-Xylene	9.36	106	158303	5.120	ug/L	97
54) o-Xylene	9.76	106	153138	5.216	ug/L	99
55) Styrene	9.77	104	271209	5.324	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.44	83	89435	4.677	ug/L	99
59) Isopropylbenzene	10.15	105	393032	4.838	ug/L	99
60) Bromoform	9.94	173	51206	4.704	ug/L	96
61) 1,2,3-Trichloropropane	10.48	75	65205	4.608	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	315365	4.784	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	325049	4.942	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	210334	4.842	ug/L	99
65) 1,4-Dichlorobenzene	11.49	146	209452	4.683	ug/L	96
67) 1,2-Dichlorobenzene	11.86	146	198211	4.726	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.64	75	14374	4.654	ug/L	96
69) 1,3,5-Trichlorobenzene	12.87	180	161409	4.724	ug/L	100
70) 1,2,4-trichlorobenzene	13.49	180	126376	4.753	ug/L	98
71) Naphthalene	13.73	128	188795	4.611	ug/L	100
72) 1,2,3-Trichlorobenzene	13.97	180	121657	4.855	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.859 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

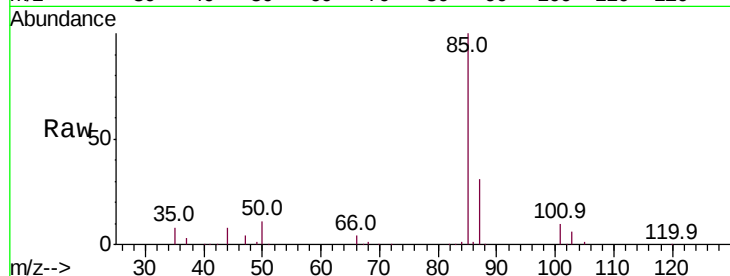
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 126100

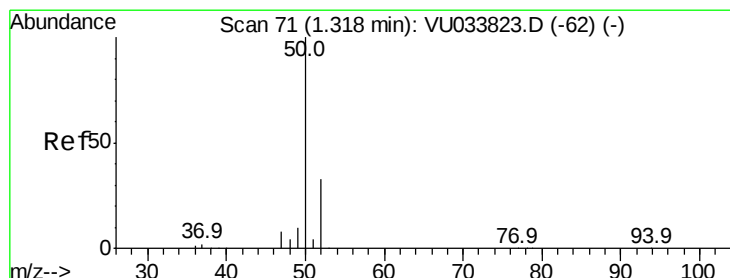
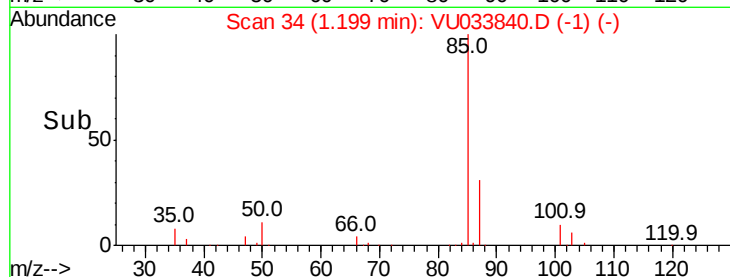
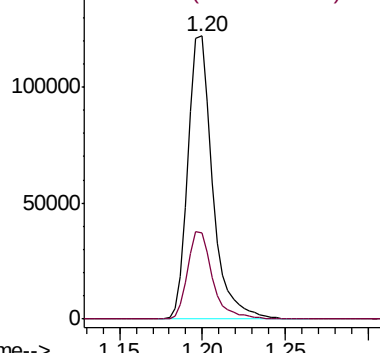
Ion Ratio Lower Upper

85 100

87 31.1 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.879 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033840.D

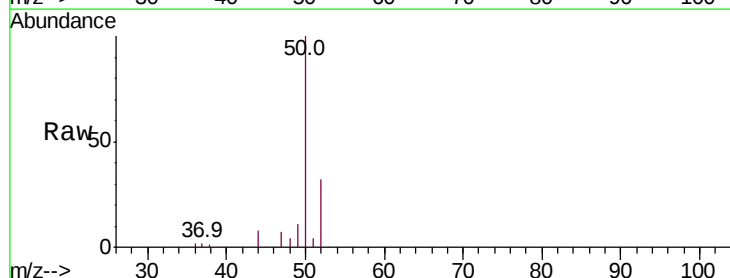
Acq: 19 Aug 2019 12:34

Tgt Ion: 50 Resp: 131402

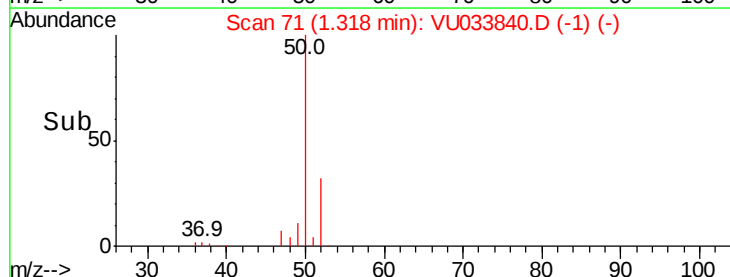
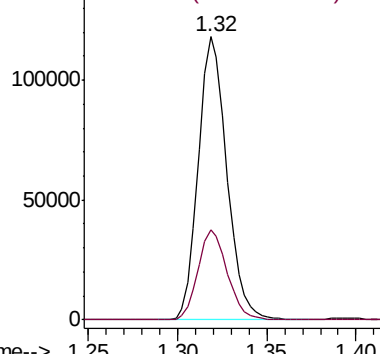
Ion Ratio Lower Upper

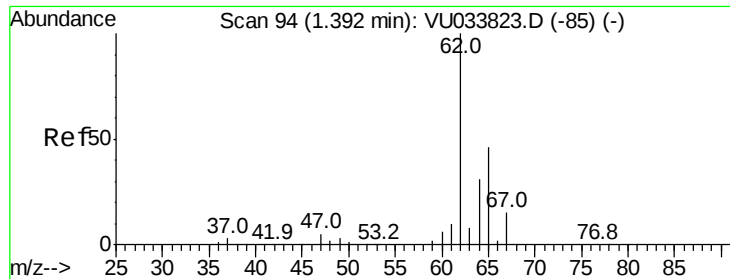
50 100

52 31.9 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 4.870 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

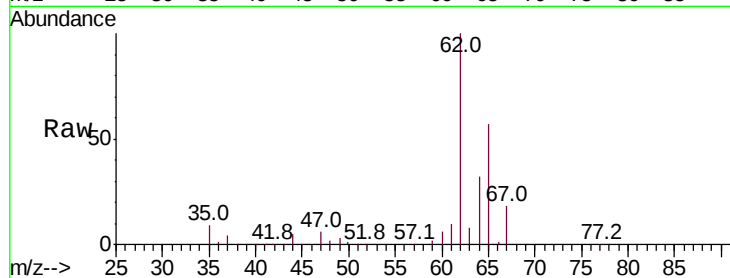
ClientSampleId :

Tot Ion: 62 Resp: 143029

Ion Ratio Lower Upper

62 100

64 31.9 21.9 40.7



Abundance Ion 62.00 (61.70 to 62.70): VU033823.D (-85) (-)

Ion 64.00 (63.70 to 64.70): VU033823.D (-85) (-)

150000

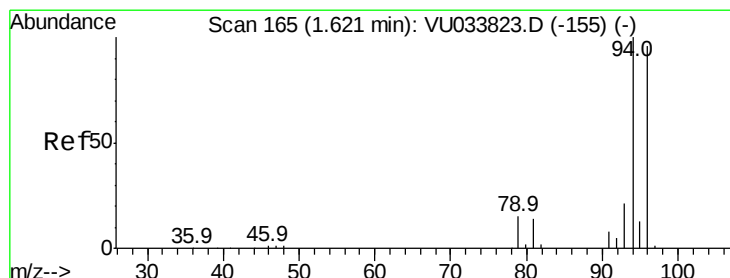
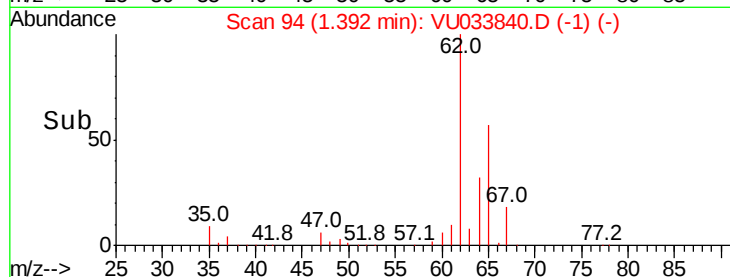
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 4.961 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033840.D

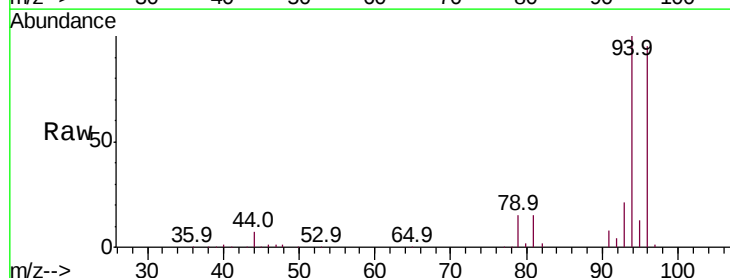
Acq: 19 Aug 2019 12:34

Tgt Ion: 94 Resp: 84800

Ion Ratio Lower Upper

94 100

96 95.3 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VU033823.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033823.D (-155) (-)

80000

60000

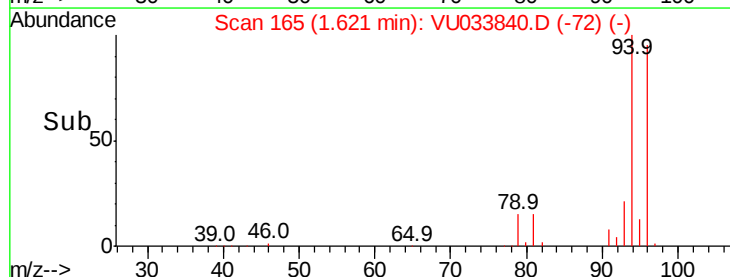
40000

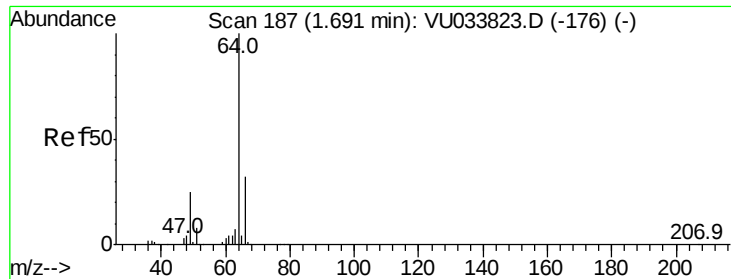
20000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 4.797 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

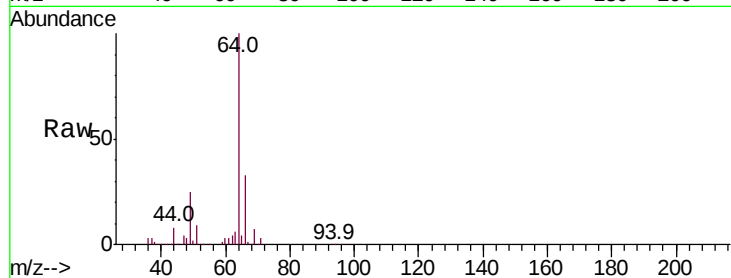
ClientSampleId :

Tot Ion: 64 Resp: 83214

Ion Ratio Lower Upper

64 100

66 33.1 21.9 40.7



Abundance Ion 64.00 (63.70 to 64.70): VU033823.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033823.D (-176) (-)

1.69

80000

60000

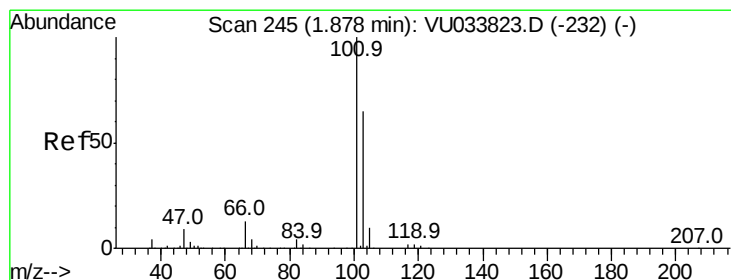
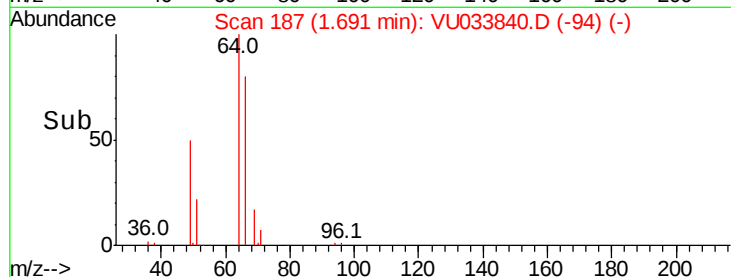
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 4.850 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU033840.D

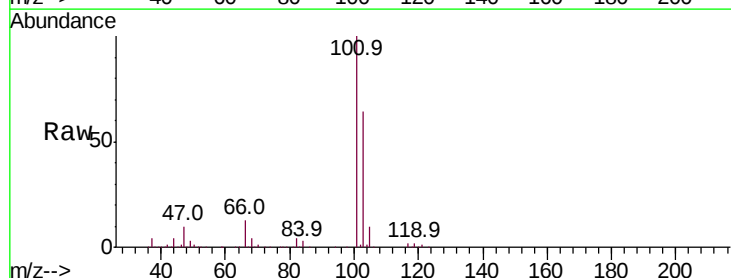
Acq: 19 Aug 2019 12:34

Tgt Ion:101 Resp: 195127

Ion Ratio Lower Upper

101 100

103 64.1 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VU033823.D (-232) (-)

Ion 103.00 (102.70 to 103.70): VU033823.D (-232) (-)

1.88

150000

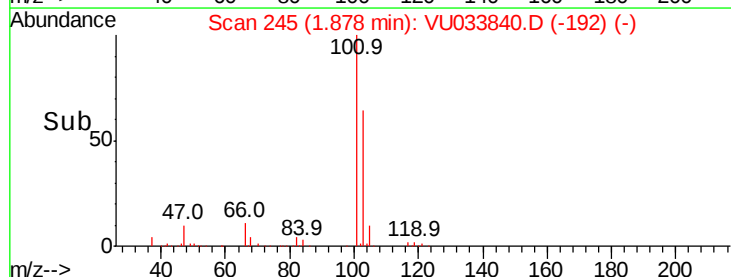
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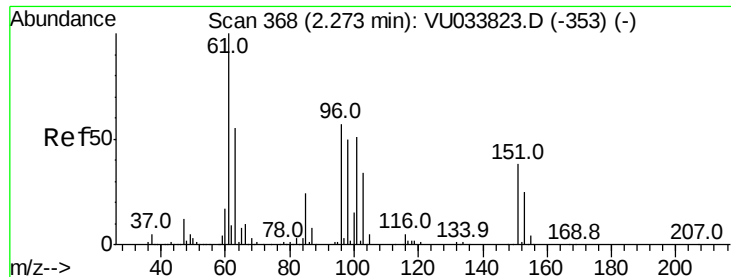
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 5.025 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

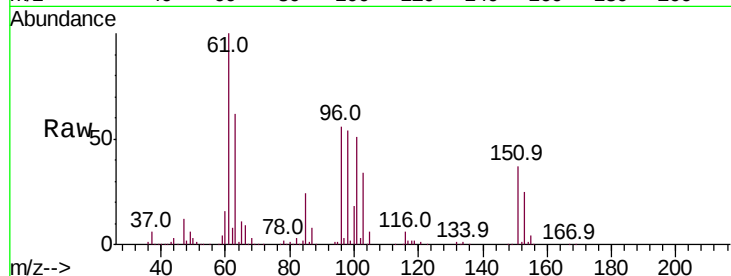
Tot Ion:101 Resp: 107285

Ion Ratio Lower Upper

101 100

85 45.2 36.2 54.2

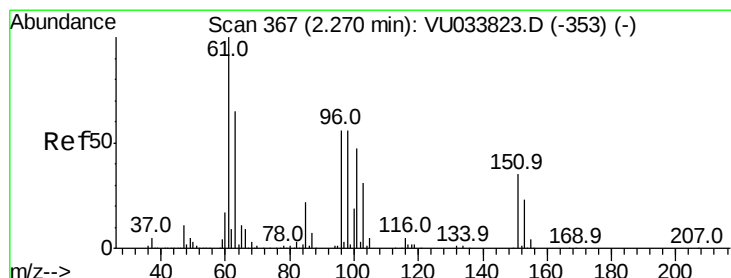
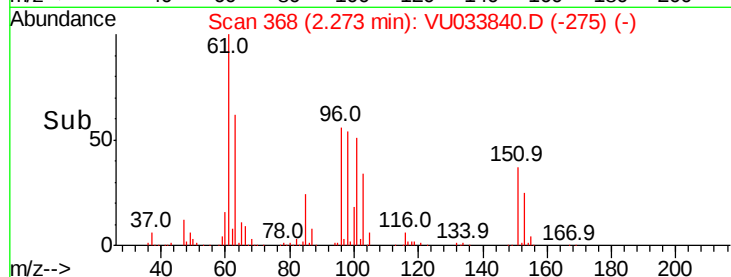
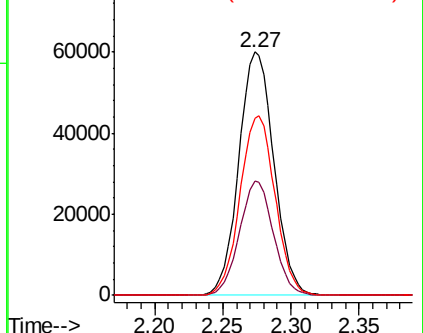
151 73.6 58.7 88.1



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: 5.038 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

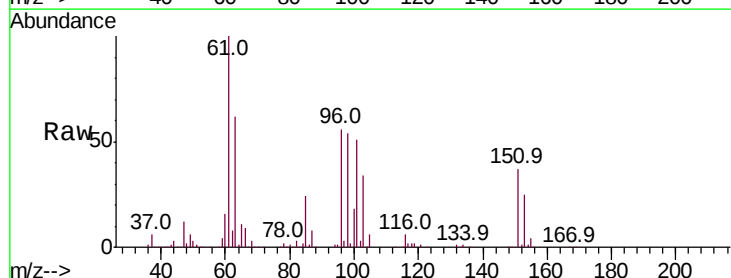
Tgt Ion: 96 Resp: 103931

Ion Ratio Lower Upper

96 100

61 177.1 123.8 230.0

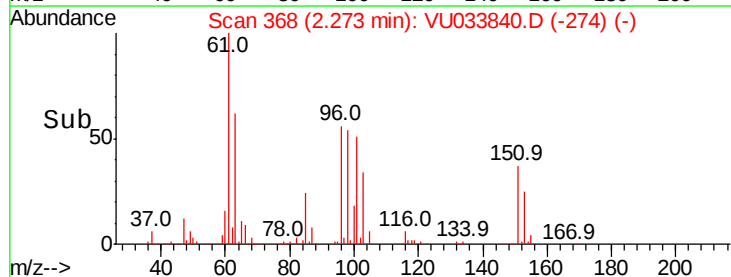
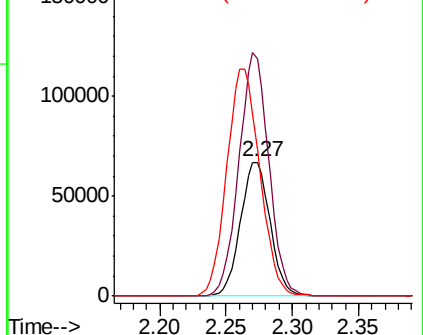
63 109.1 78.0 144.9

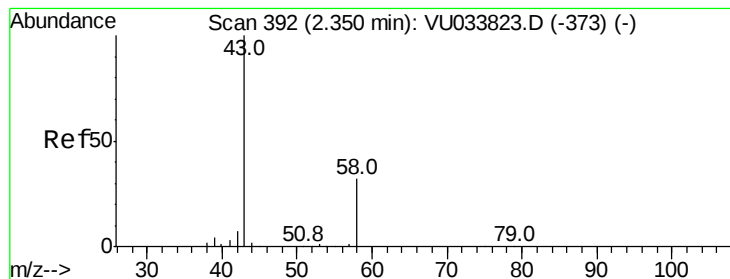


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 50.442 ug/L

RT: 2.35 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

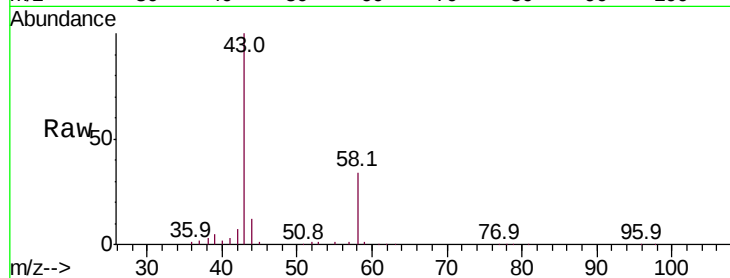
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 210476

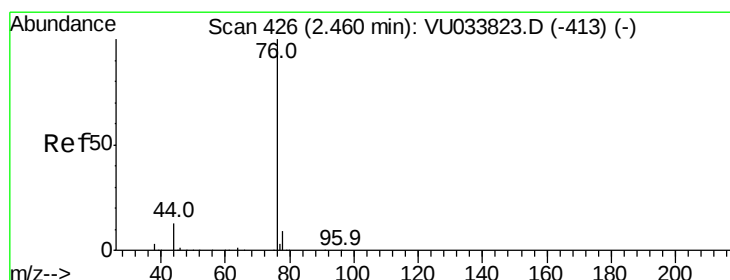
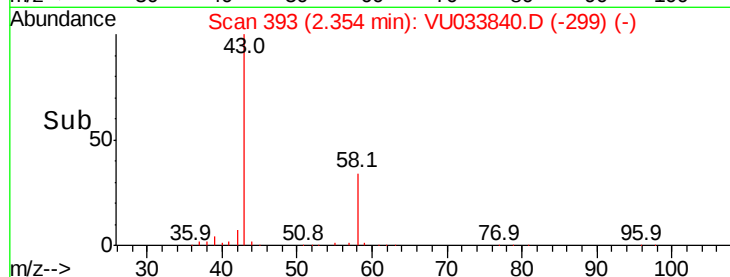
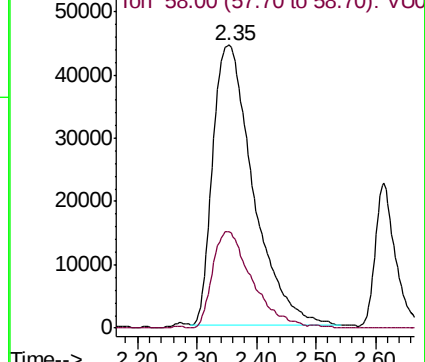
Ion Ratio Lower Upper

43 100

58 32.9 0.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU033840.D (-299) (-)



#14

Carbon disulfide

Concen: 4.723 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033840.D

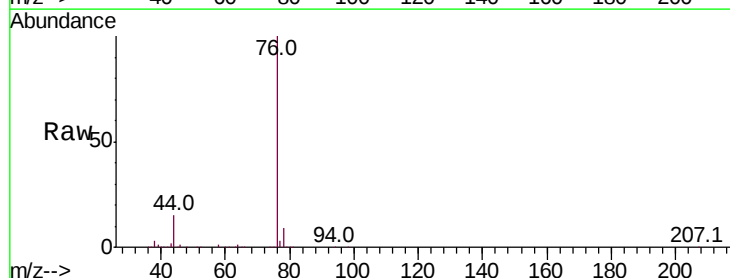
Acq: 19 Aug 2019 12:34

Tgt Ion: 76 Resp: 330926

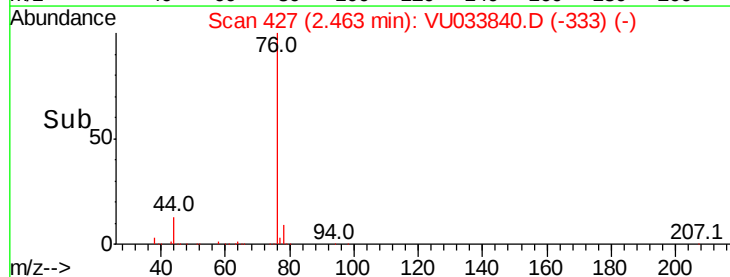
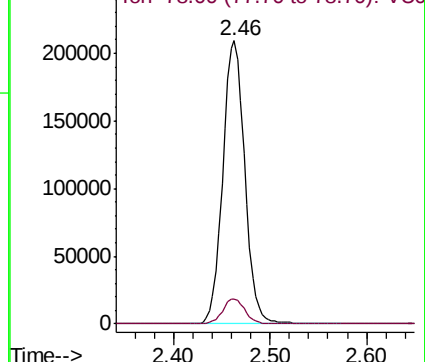
Ion Ratio Lower Upper

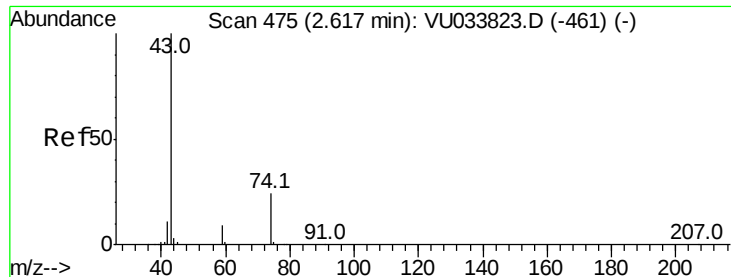
76 100

78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU033840.D (-333) (-)





#15

Methvl Acetate

Concen: 4.850 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

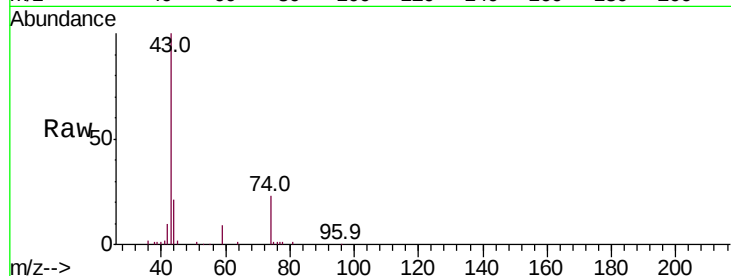
ClientSampleId :

Tot Ion: 43 Resp: 52605

Ion Ratio Lower Upper

43 100

74 23.9 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VU033823.D (-461) (-)

Ion 74.00 (73.70 to 74.70): VU033823.D (-461) (-)

2.61

25000

20000

15000

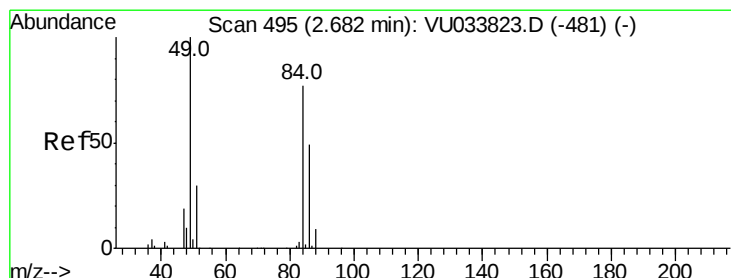
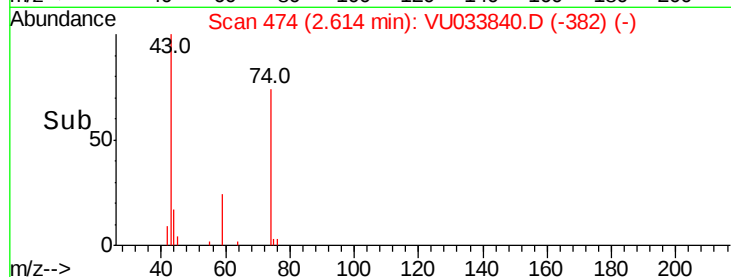
10000

5000

0

2.55 2.60 2.65 2.70 2.75

Time-->



#16

Methylene chloride

Concen: 4.798 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

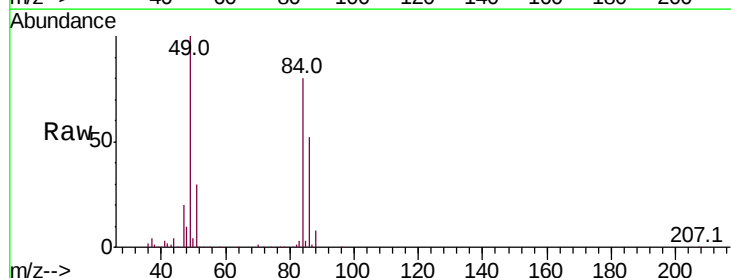
Tgt Ion: 84 Resp: 115557

Ion Ratio Lower Upper

84 100

86 64.6 46.0 85.4

49 125.2 90.4 168.0



Abundance Ion 84.00 (83.70 to 84.70): VU033823.D (-481) (-)

Ion 86.00 (85.70 to 86.70): VU033823.D (-481) (-)

Ion 49.00 (48.70 to 49.70): VU033823.D (-481) (-)

100000

80000

60000

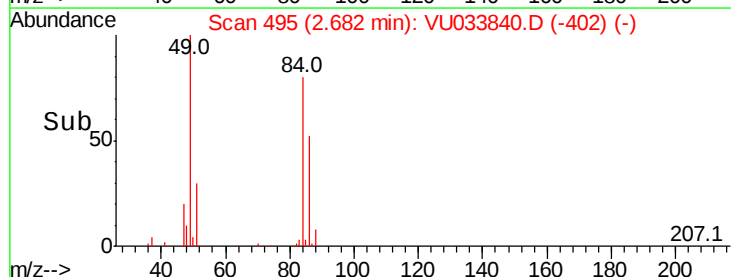
40000

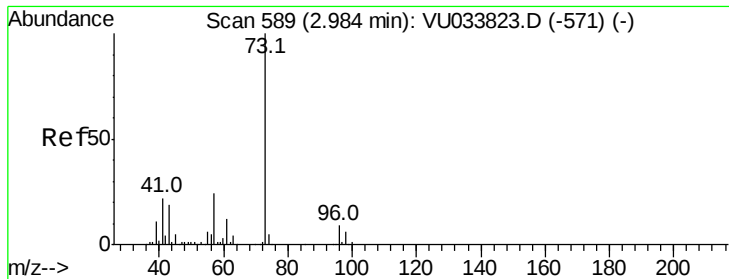
20000

0

2.60 2.65 2.70 2.75

Time-->



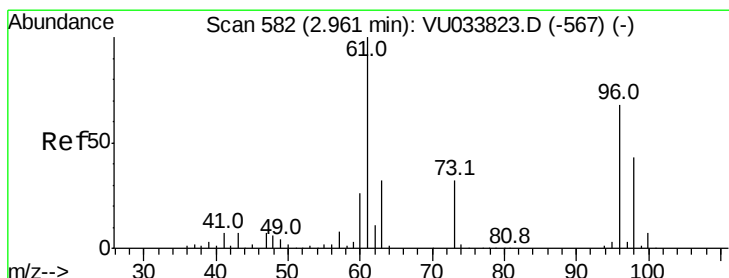
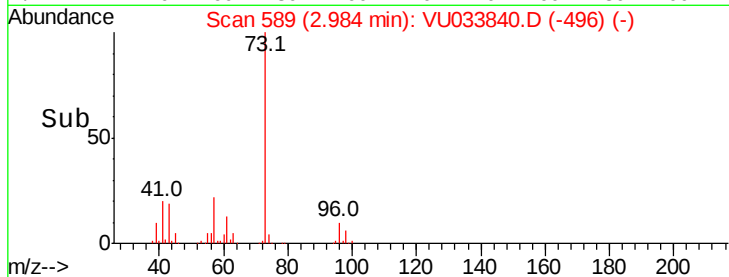
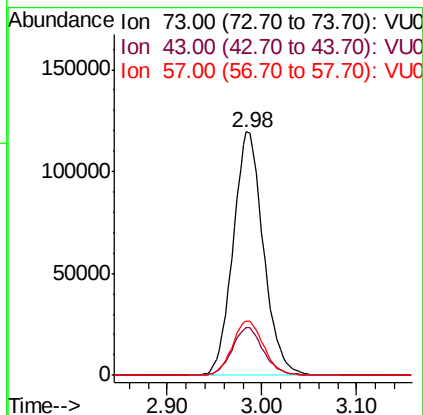
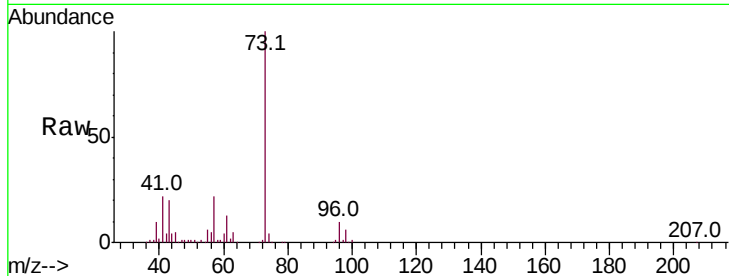


#17

Methvl tert-butvl Ether
 Concen: 4.976 ug/L
 RT: 2.98 min Scan# 589
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Instrument :
 MSVOA_U
 ClientSampleId :

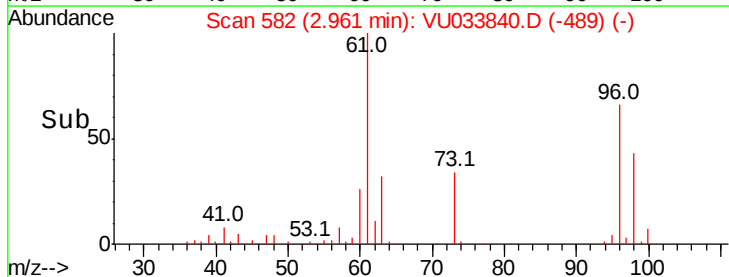
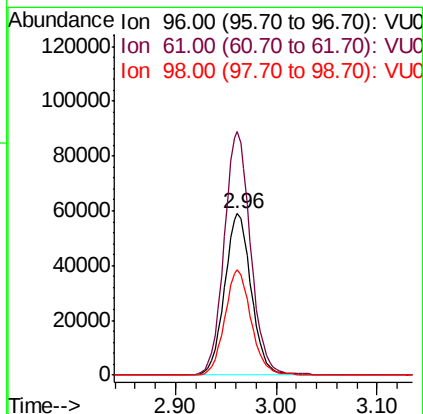
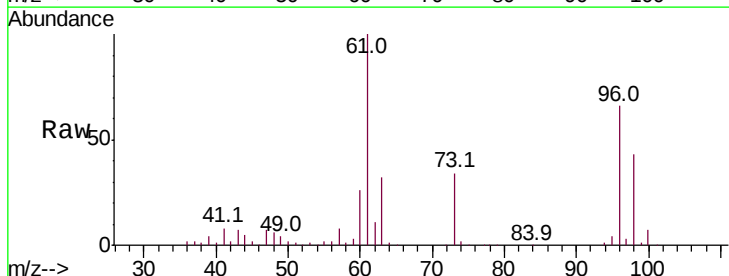
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.9	16.2	24.4
57	23.2	18.9	28.3

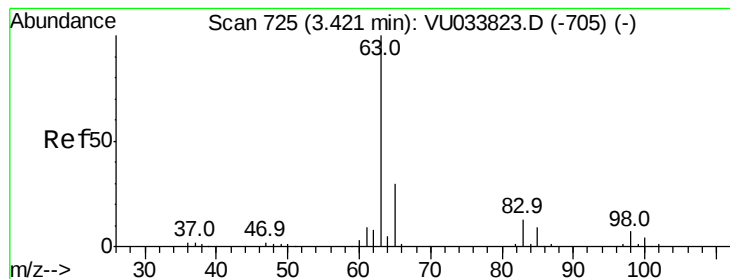


#18

trans-1,2-Dichloroethene
 Concen: 4.915 ug/L
 RT: 2.96 min Scan# 582
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.6	107.2	199.0
98	64.8	43.0	79.8





#19

1,1-Dichloroethane

Concen: 4.909 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

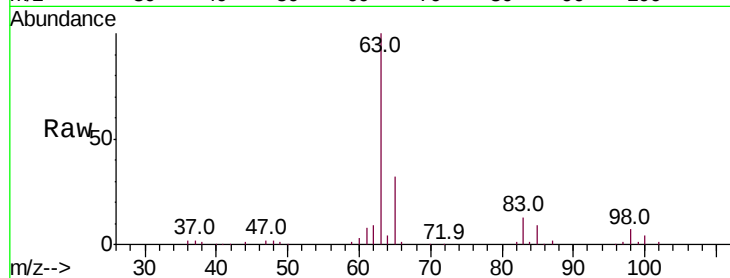
Tot Ion: 63 Resp: 170014

Ion Ratio Lower Upper

63 100

65 32.4 22.4 41.6

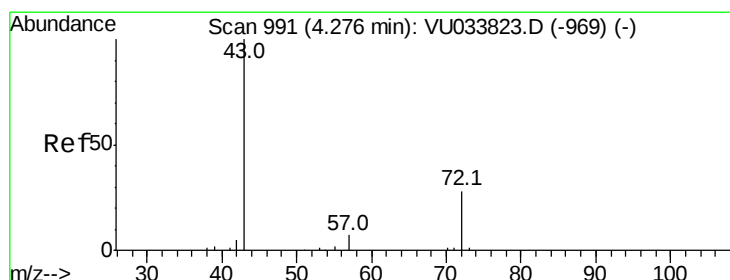
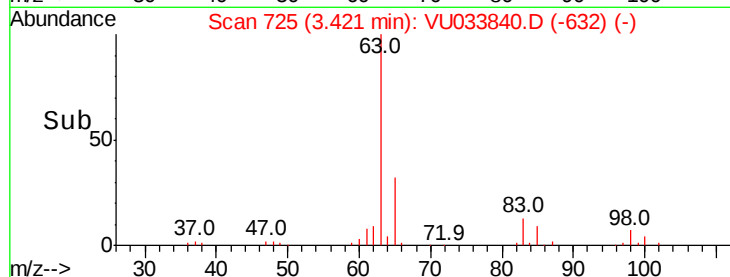
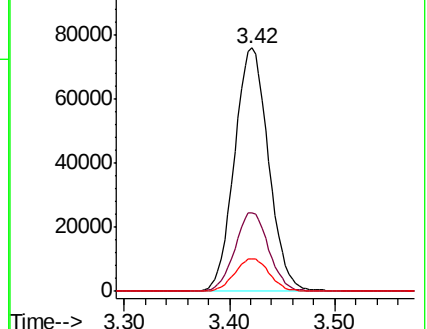
83 13.4 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VU033840.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033840.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033840.D (-632) (-)



#21

2-Butanone

Concen: 49.832 ug/L

RT: 4.28 min Scan# 991

Delta R.T. -0.00 min

Lab File: VU033840.D

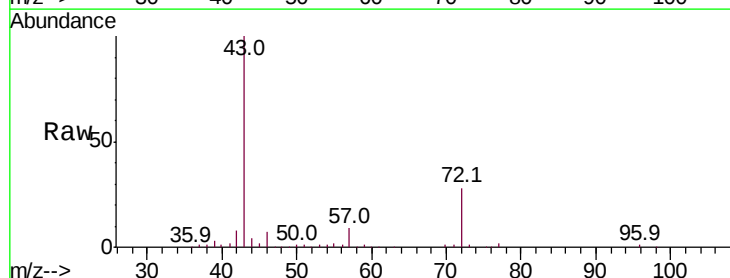
Acq: 19 Aug 2019 12:34

Tgt Ion: 43 Resp: 257436

Ion Ratio Lower Upper

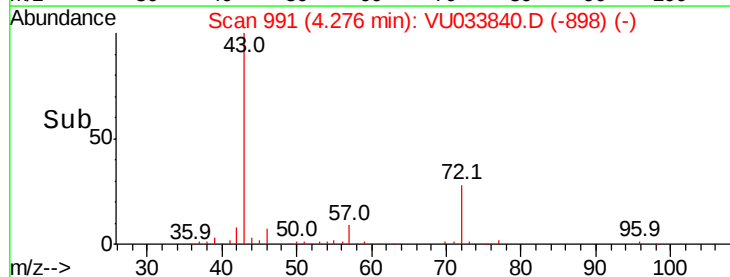
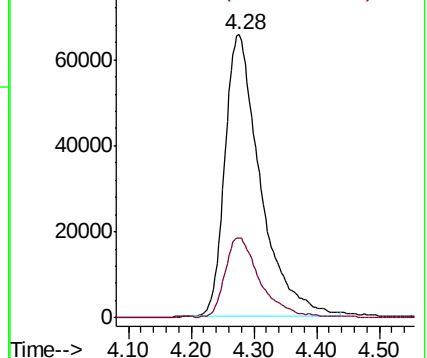
43 100

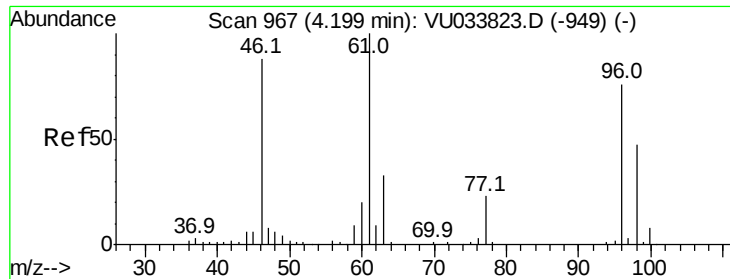
72 27.8 13.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VU033840.D (-898) (-)

Ion 72.00 (71.70 to 72.70): VU033840.D (-898) (-)



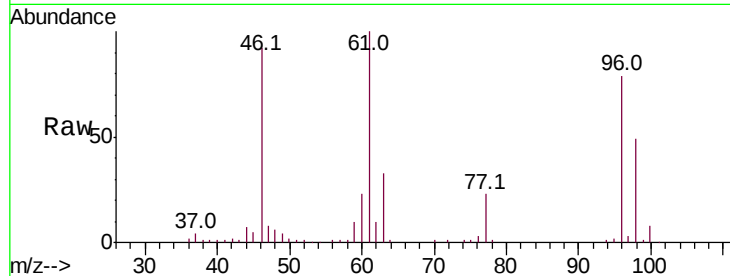


#22

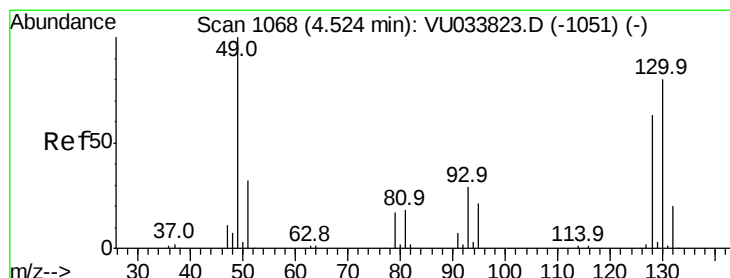
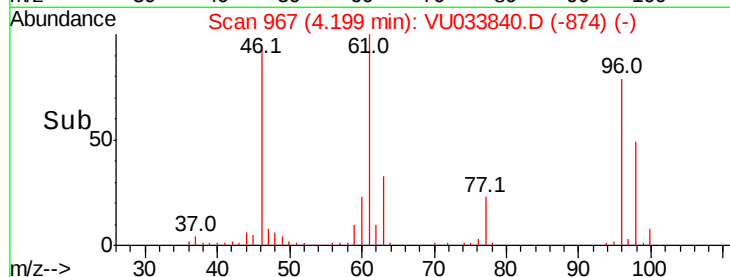
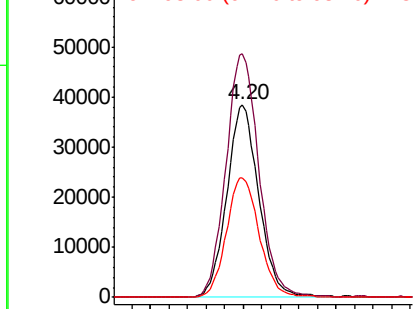
cis-1,2-Dichloroethene
Concen: 4.878 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 92188
Ion Ratio Lower Upper
96 100
61 126.5 91.7 170.3
98 62.0 45.1 83.9



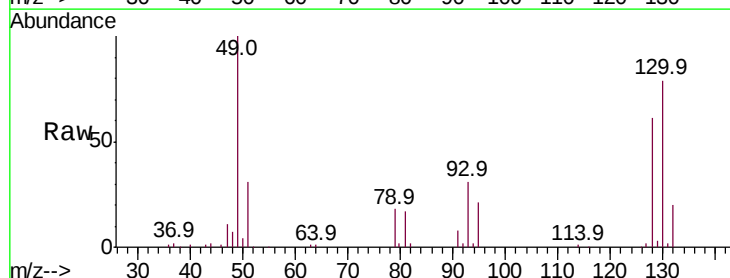
Abundance Ion 96.00 (95.70 to 96.70): VU033823.D (-949) (-)
Ion 61.00 (60.70 to 61.70): VU033823.D (-949) (-)
Ion 98.00 (97.70 to 98.70): VU033823.D (-949) (-)



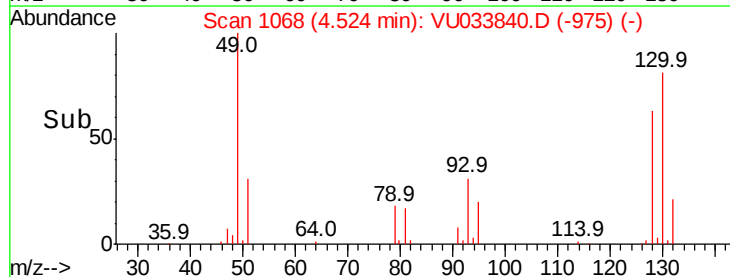
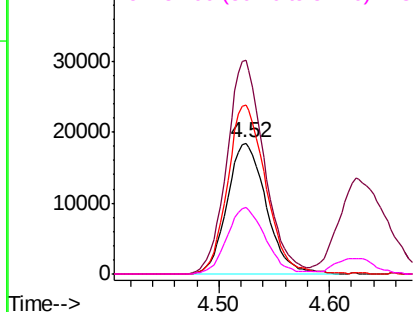
#23

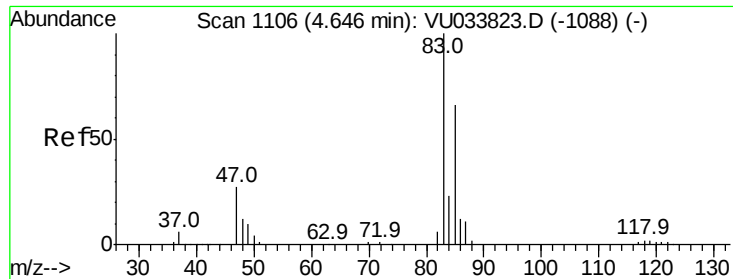
Bromochloromethane
Concen: 5.003 ug/L
RT: 4.52 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Tgt Ion: 128 Resp: 45336
Ion Ratio Lower Upper
128 100
49 163.2 106.8 198.4
130 129.2 88.3 164.1
51 50.4 40.3 60.5



Abundance Ion 128.00 (127.70 to 128.70): VU033823.D (-1051) (-)
Ion 49.00 (48.70 to 49.70): VU033823.D (-1051) (-)
Ion 130.00 (129.70 to 130.70): VU033823.D (-1051) (-)
Ion 51.00 (50.70 to 51.70): VU033823.D (-1051) (-)

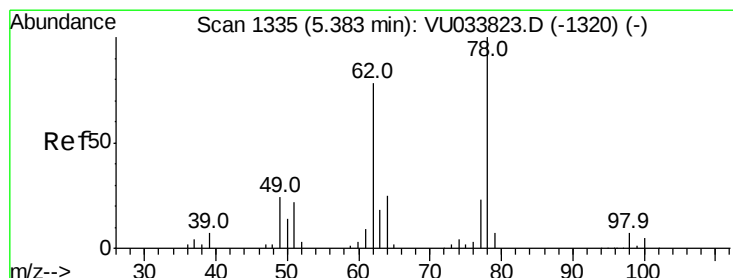
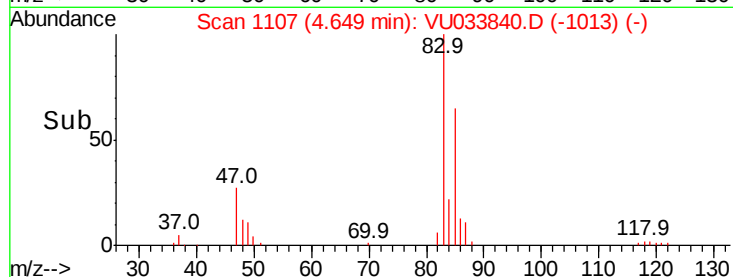
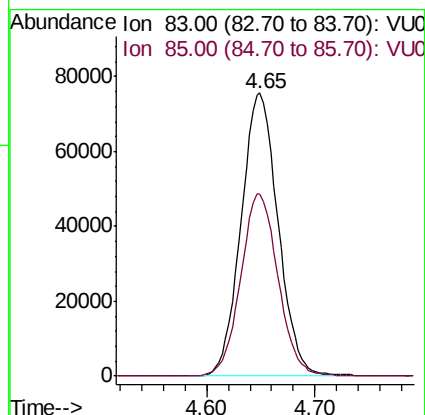
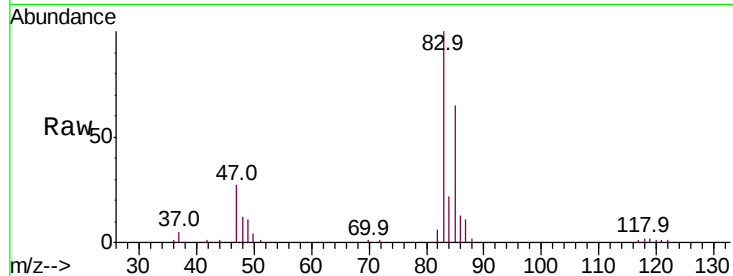




#25
Chloroform
Concen: 4.822 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

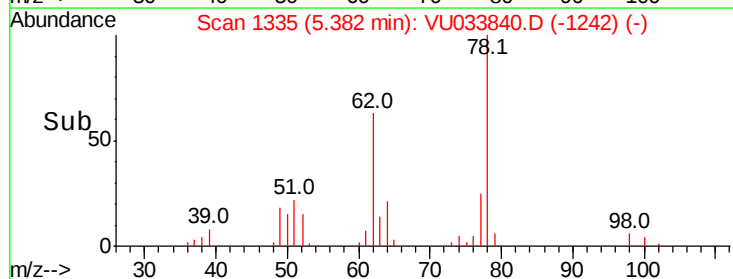
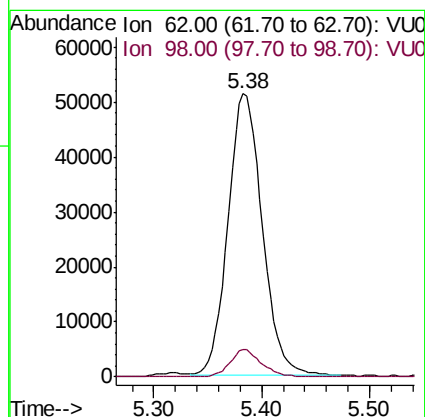
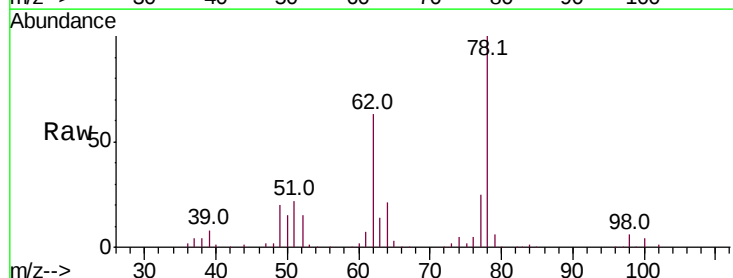
Instrument :
MSVOA_U
ClientSampleId :

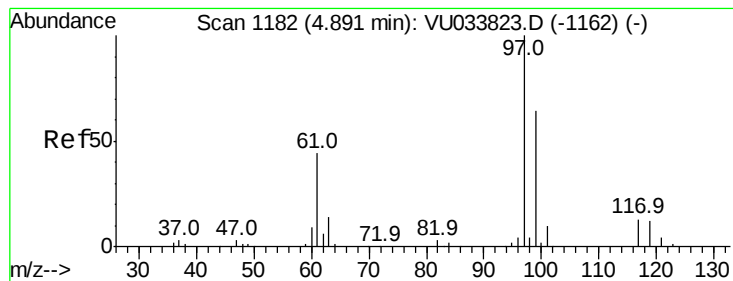
Tot Ion: 83 Resp: 179737
Ion Ratio Lower Upper
83 100
85 64.5 44.2 82.0



#27
1,2-Dichloroethane
Concen: 4.942 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Tgt Ion: 62 Resp: 113513
Ion Ratio Lower Upper
62 100
98 9.8 7.4 11.0





#29

1,1,1-Trichloroethane

Concen: 4.857 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :

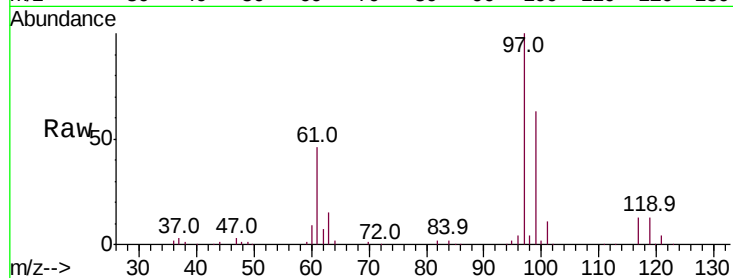
Tot Ion: 97 Resp: 148996

Ion Ratio Lower Upper

97 100

99 63.8 50.8 76.2

61 45.6 37.4 56.0

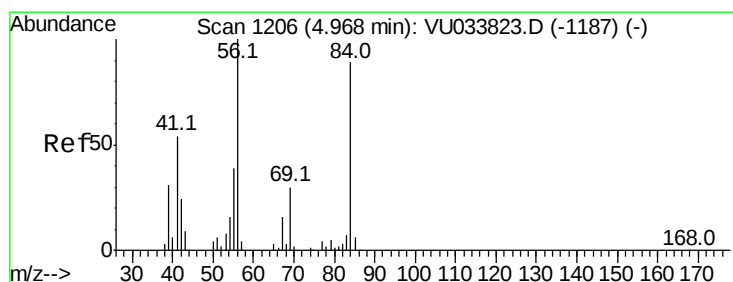
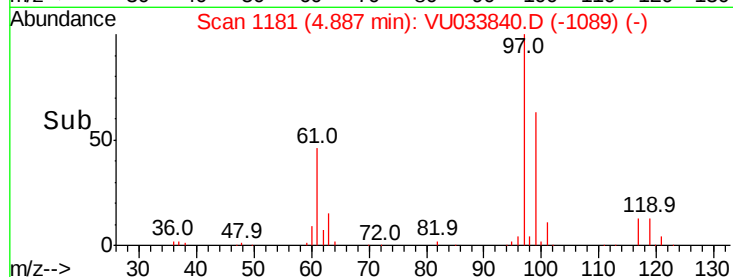
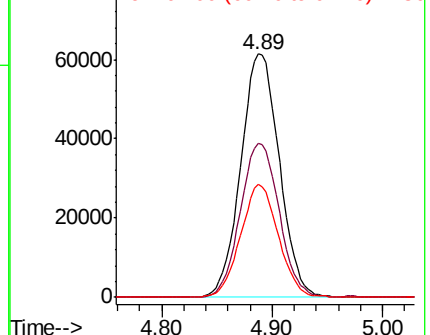


Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#30

Cyclohexane

Concen: 4.604 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

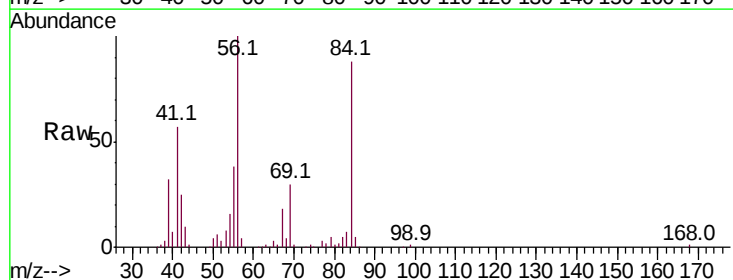
Tgt Ion: 56 Resp: 127834

Ion Ratio Lower Upper

56 100

69 30.6 25.2 37.8

84 87.8 69.8 104.6

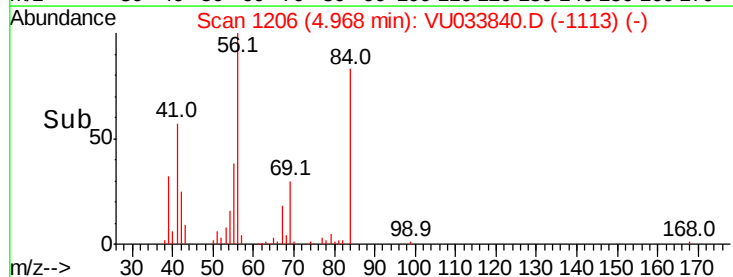
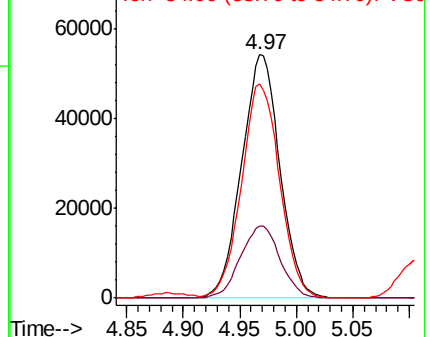


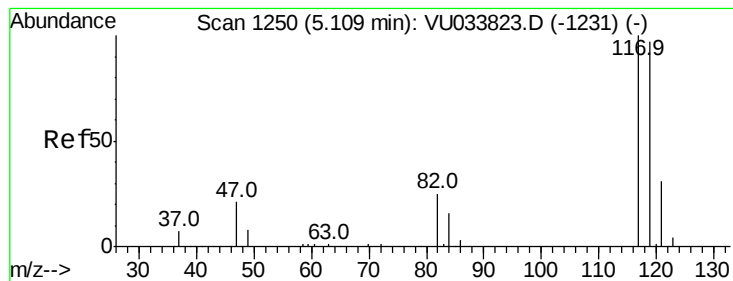
Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#31

Carbon tetrachloride

Concen: 4.896 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

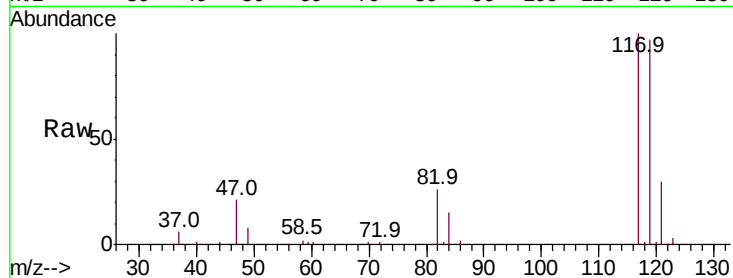
ClientSampleId :

Tot Ion:117 Resp: 133646

Ion Ratio Lower Upper

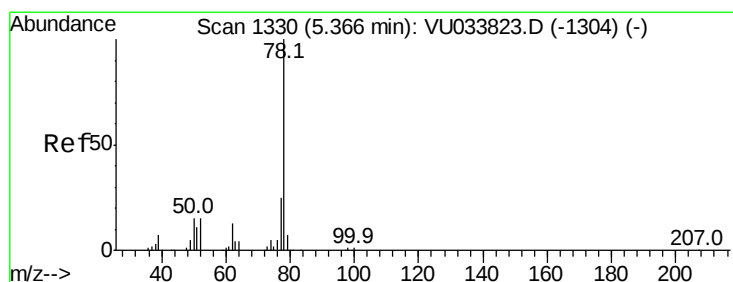
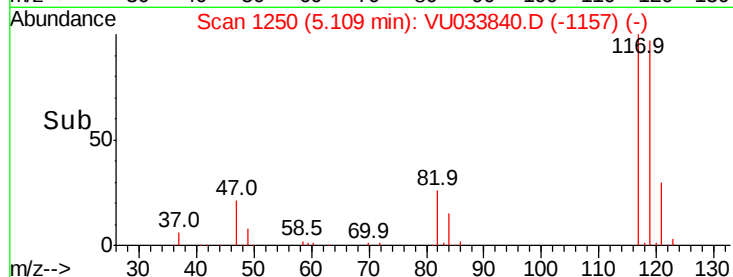
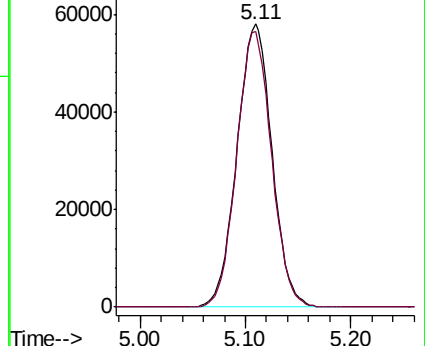
117 100

119 96.6 78.5 117.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.915 ug/L

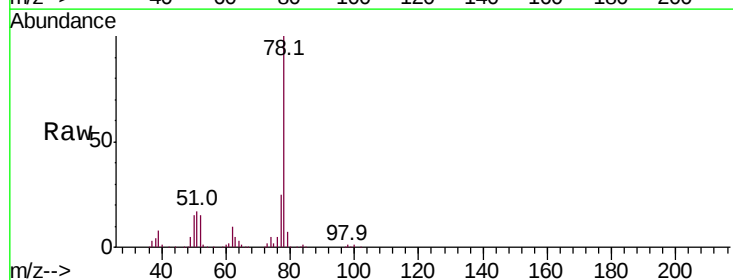
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

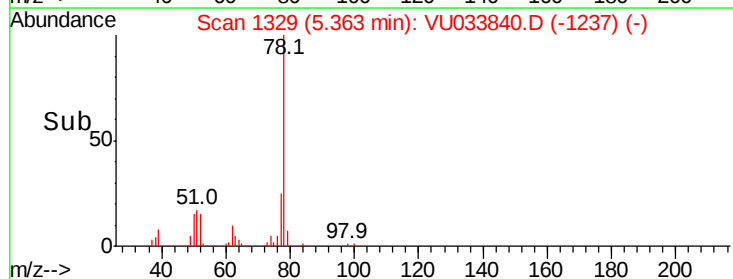
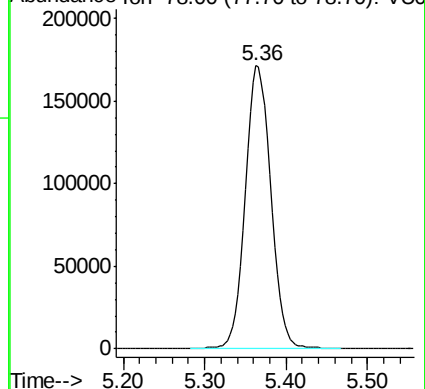
Lab File: VU033840.D

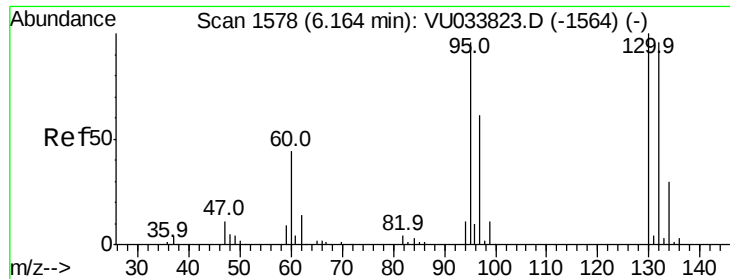
Acq: 19 Aug 2019 12:34

Tgt Ion: 78 Resp: 370544



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 4.953 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 97936

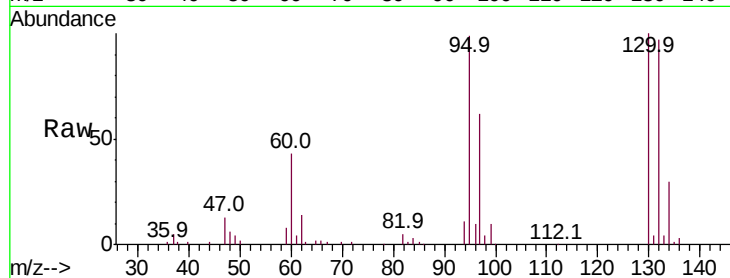
Ion Ratio Lower Upper

95 100

97 62.3 45.4 84.4

132 97.5 68.9 127.9

130 100.8 70.5 130.9



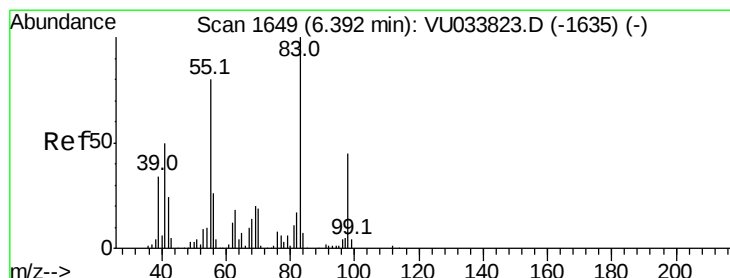
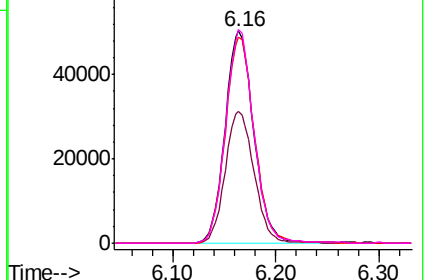
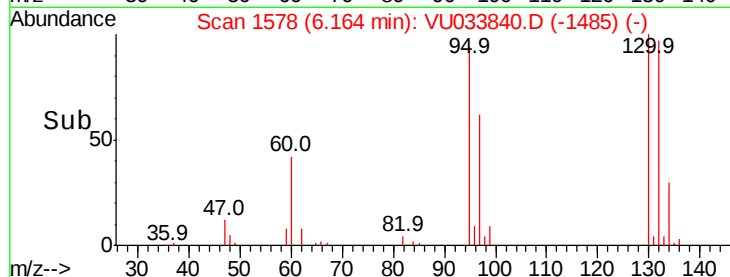
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 4.756 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

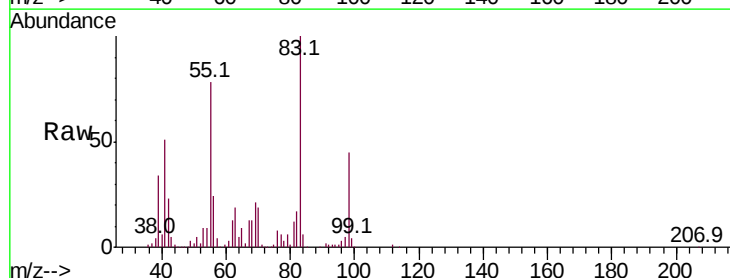
Tgt Ion: 83 Resp: 141004

Ion Ratio Lower Upper

83 100

55 80.3 65.0 97.6

98 45.3 36.2 54.4

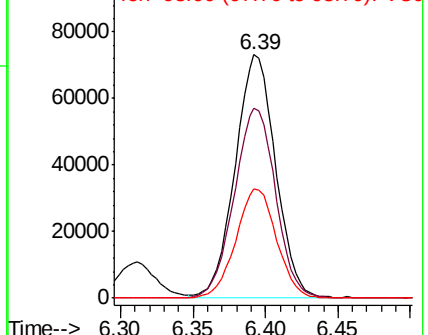
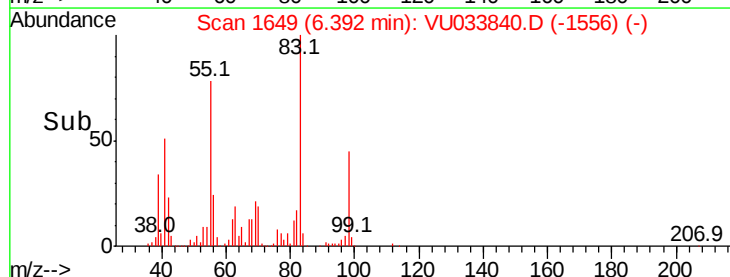


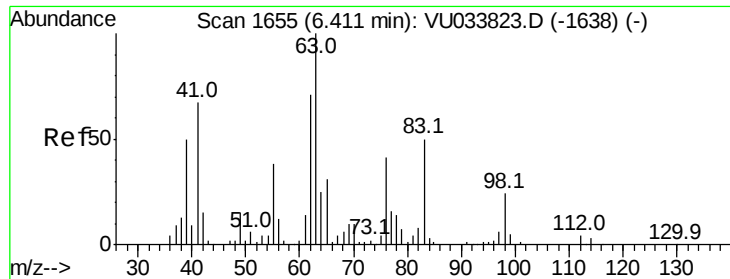
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

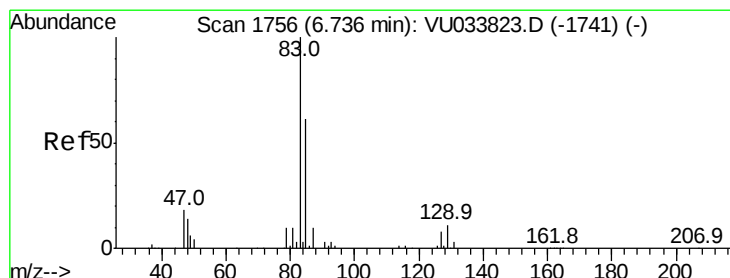
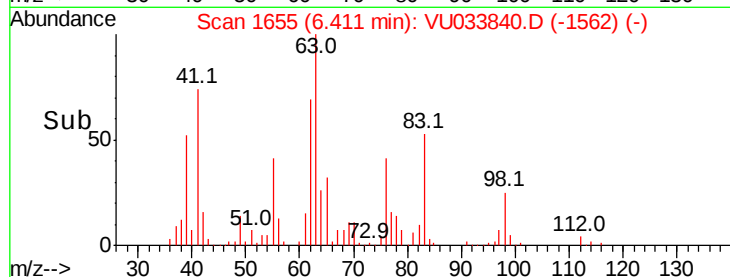
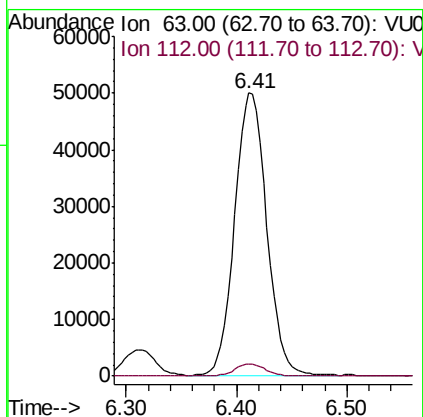
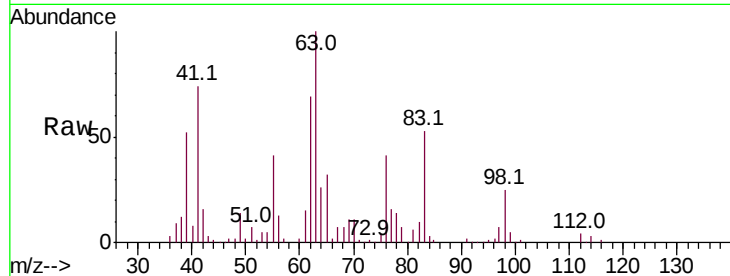




#37
 1,2-Dichloropropane
 Concen: 4.938 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

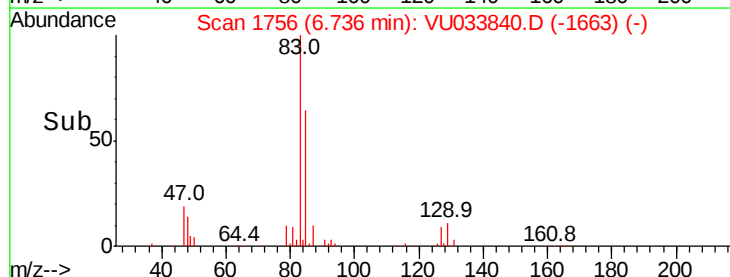
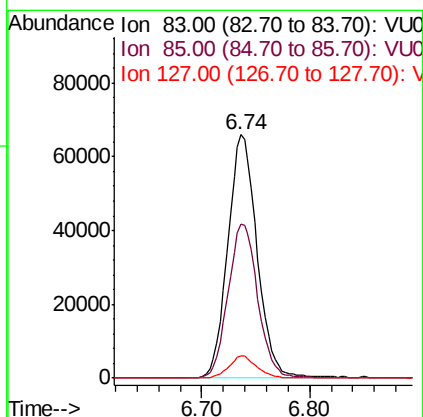
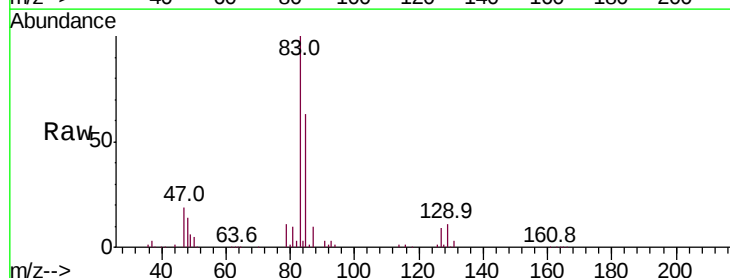
Instrument :
 MSVOA_U
 ClientSampled :

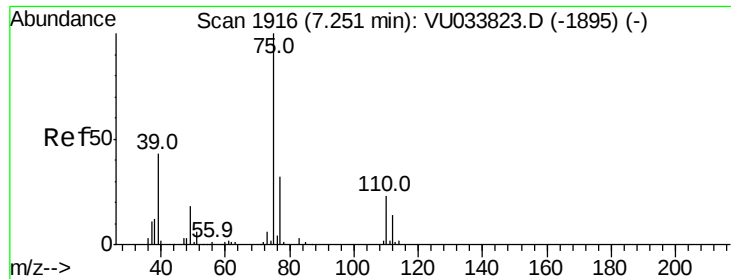
Tot Ion: 63 Resp: 100611
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 4.856 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Tgt Ion: 83 Resp: 124752
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.0 83.6
 127 9.2 7.8 11.6

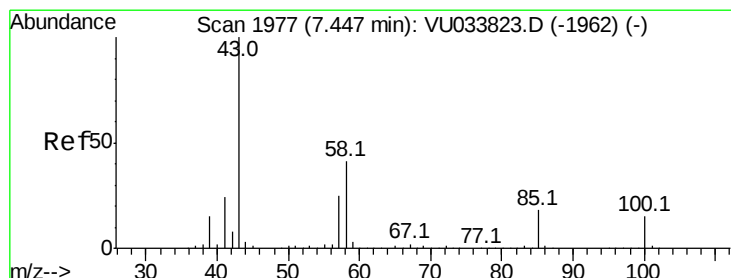
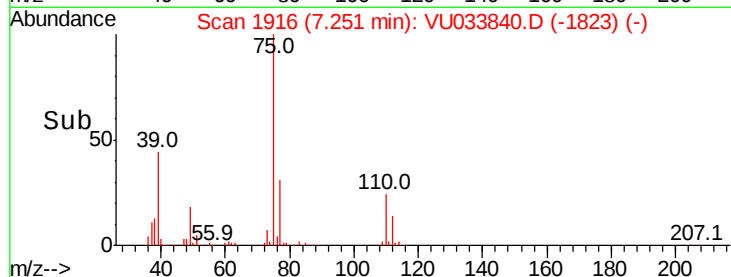
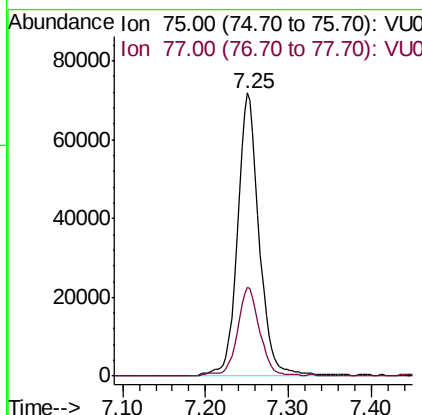
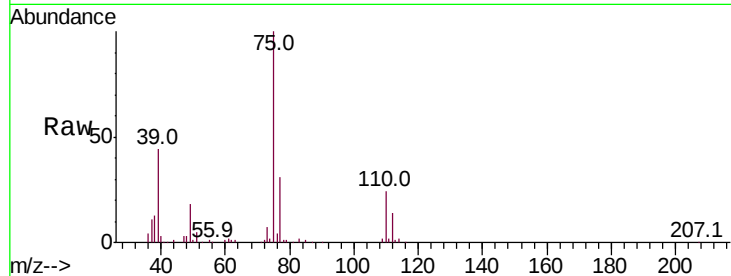




#39
 cis-1,3-Dichloropropene
 Concen: 4.793 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

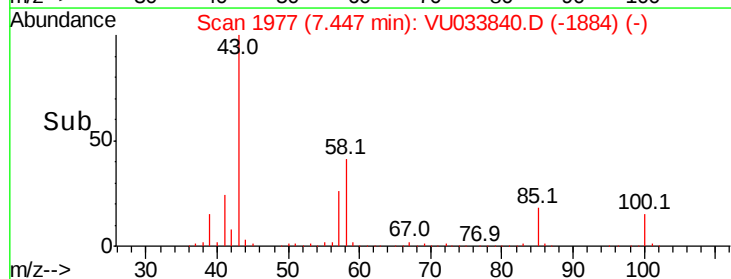
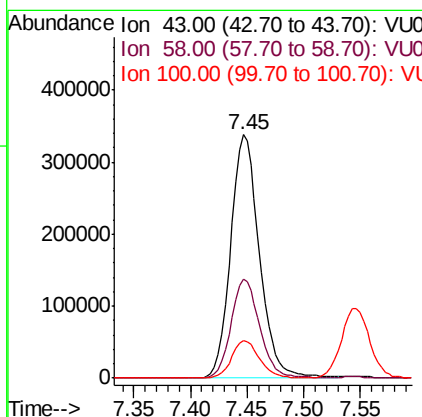
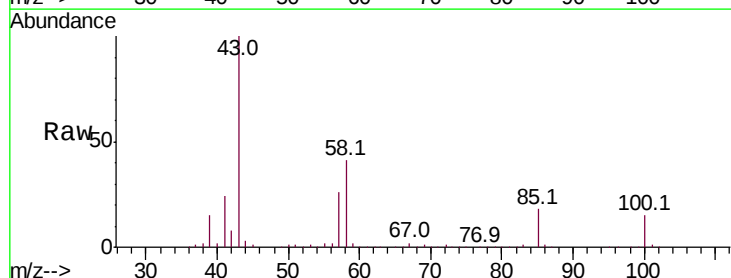
Instrument :
 MSVOA_U
 ClientSampleId :

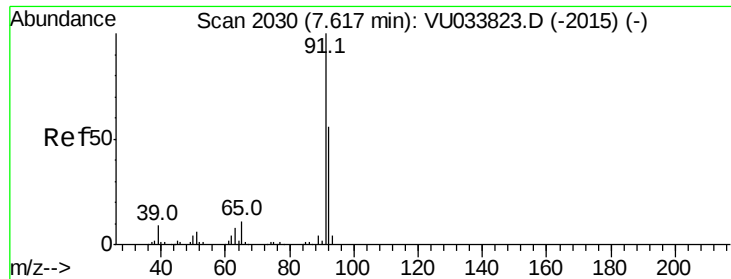
Tot Ion: 75 Resp: 131772
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.6 43.8



#40
 4-Methyl-2-pentanone
 Concen: 50.803 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Tgt Ion: 43 Resp: 598131
 Ion Ratio Lower Upper
 43 100
 58 40.5 32.2 48.4
 100 15.0 11.9 17.9





#42

Toluene

Concen: 5.127 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

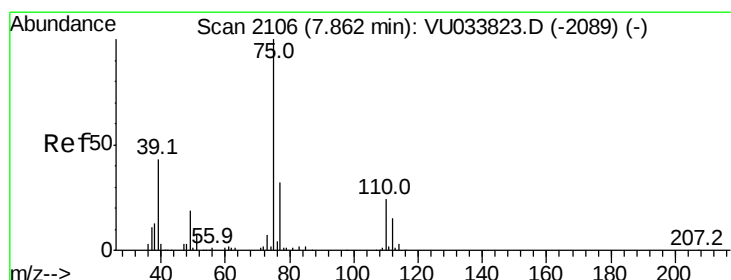
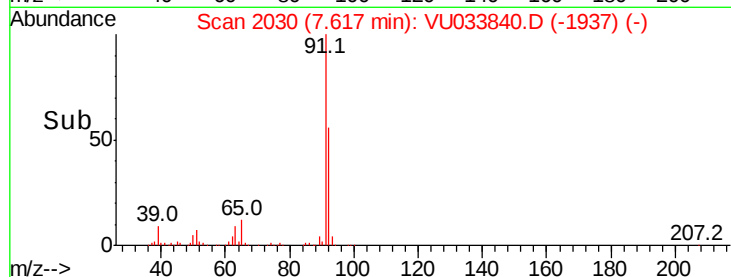
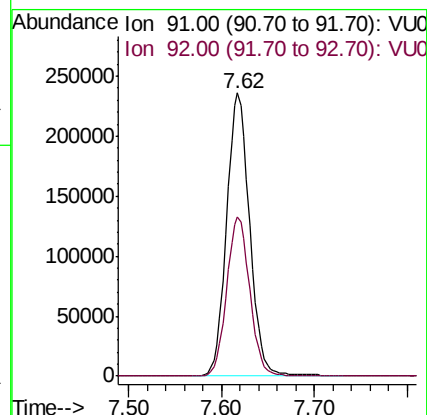
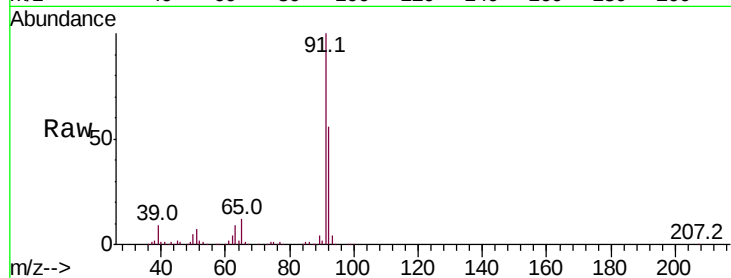
ClientSampleId :

Tot Ion: 91 Resp: 406224

Ion Ratio Lower Upper

91 100

92 56.2 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 4.926 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033840.D

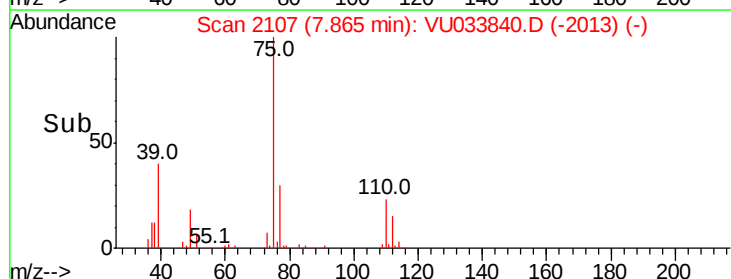
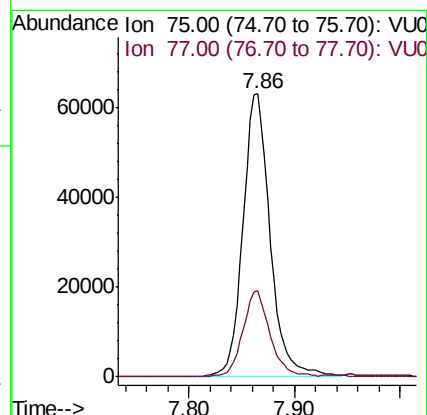
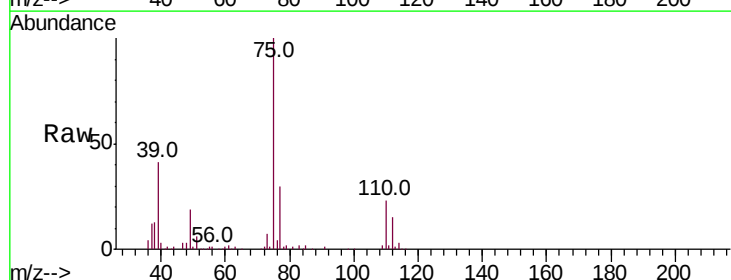
Acq: 19 Aug 2019 12:34

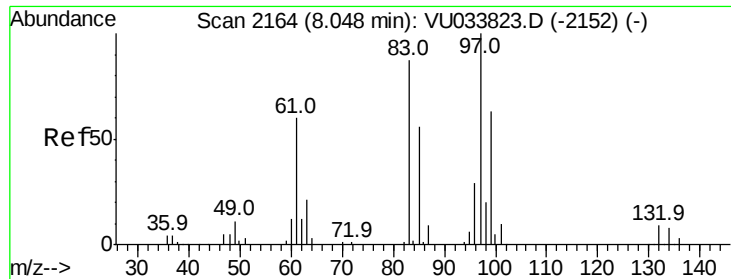
Tgt Ion: 75 Resp: 113230

Ion Ratio Lower Upper

75 100

77 30.3 22.3 41.3

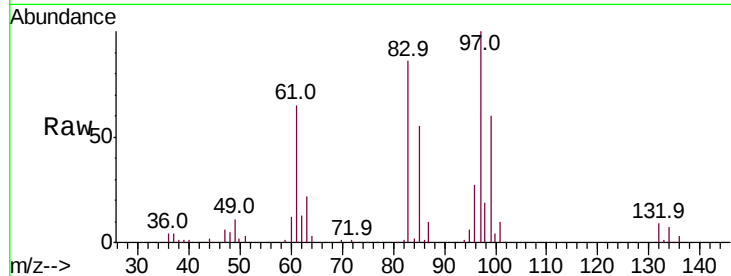




#45
 1,1,2-Trichloroethane
 Concen: 4.917 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	71582
Ion	Ratio	Lower	Upper
97	100		
99	60.2	42.6	79.0
83	86.2	59.8	111.1
85	54.9	39.3	72.9



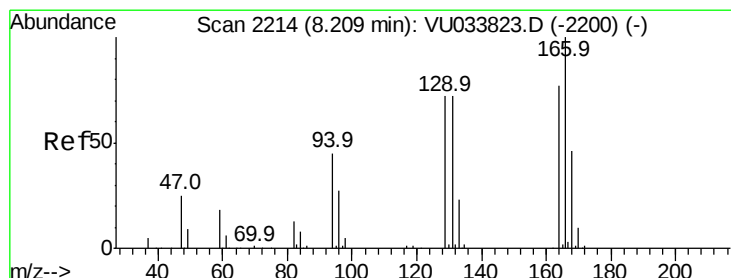
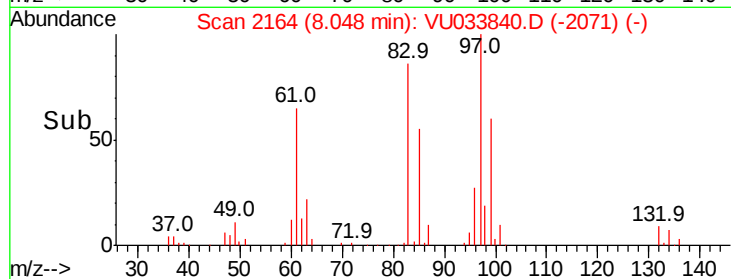
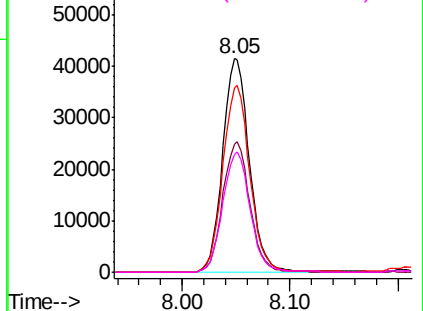
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

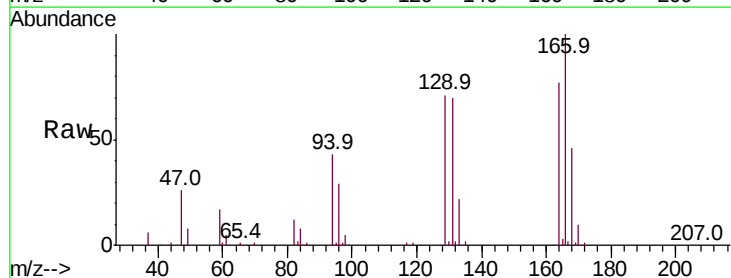
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 4.807 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Tgt Ion:	164	Resp:	79239
Ion	Ratio	Lower	Upper
164	100		
129	92.7	66.1	122.7
131	91.6	65.2	121.2
166	130.3	88.5	164.4



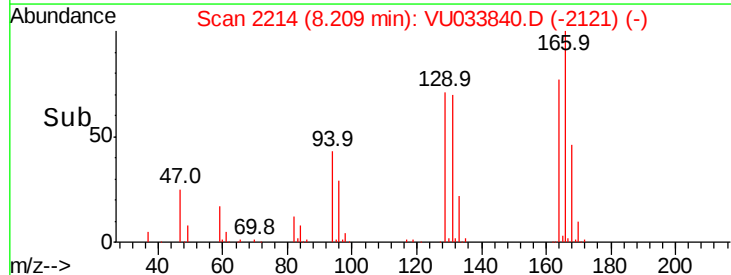
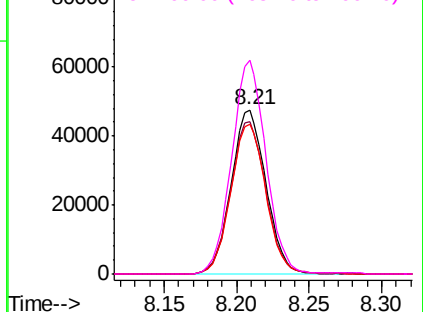
Abundance

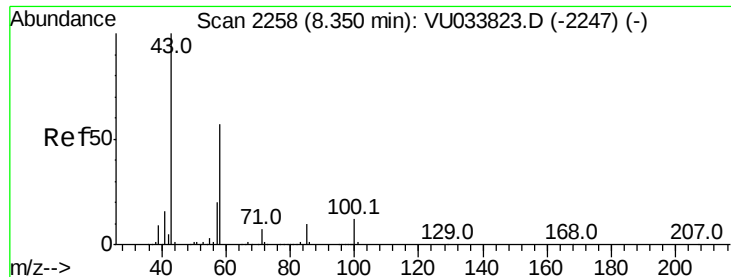
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

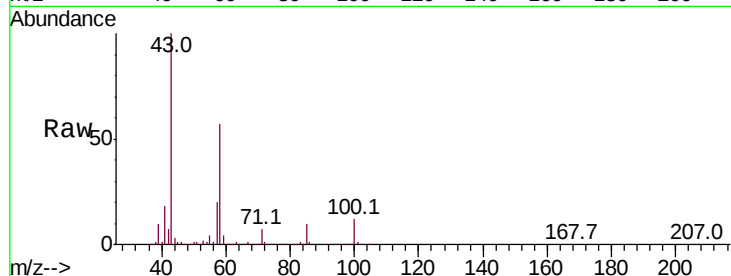




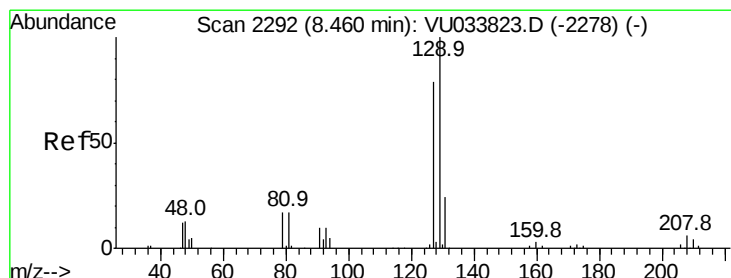
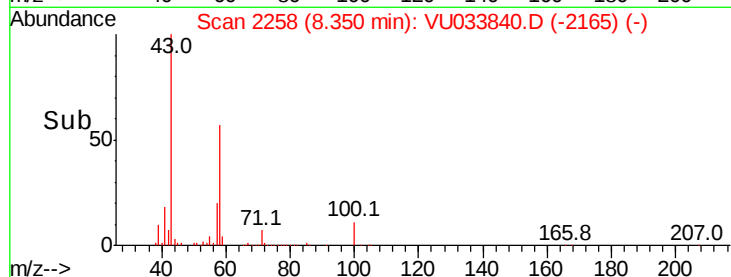
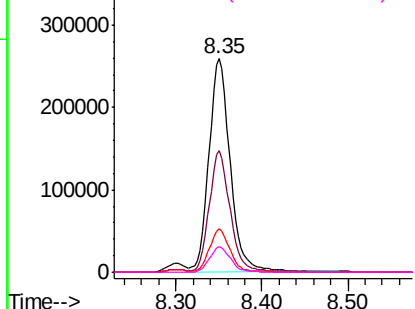
#48
2-Hexanone
Concen: 52.778 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 449382
Ion Ratio Lower Upper
43 100
58 55.3 45.2 67.8
57 19.4 15.7 23.5
100 11.5 8.6 13.0

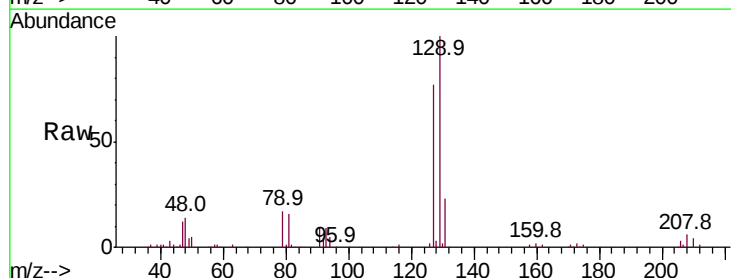


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

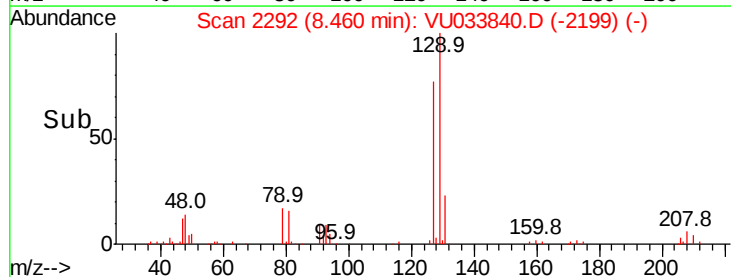
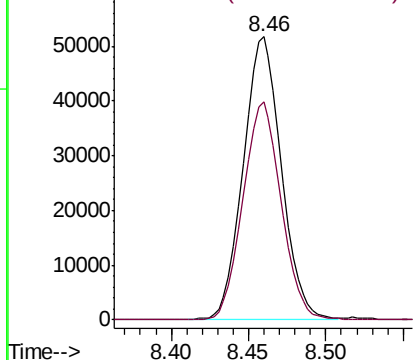


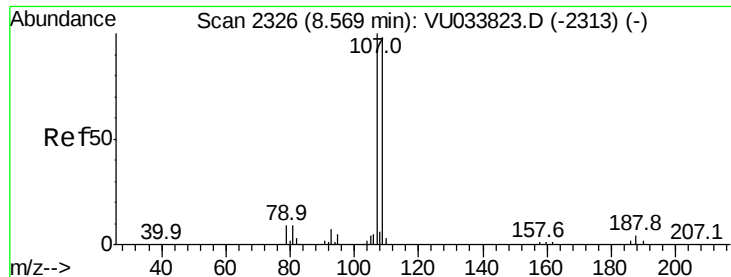
#49
Dibromochloromethane
Concen: 5.039 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Tgt Ion: 129 Resp: 88947
Ion Ratio Lower Upper
129 100
127 76.8 54.2 100.6



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

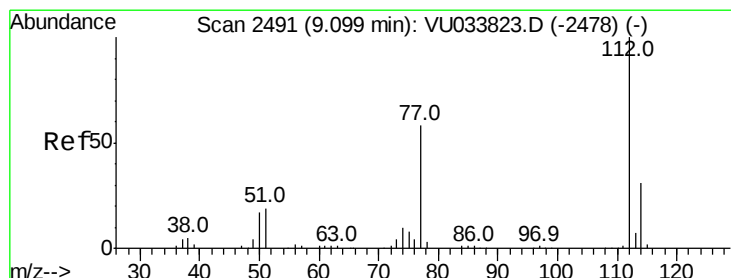
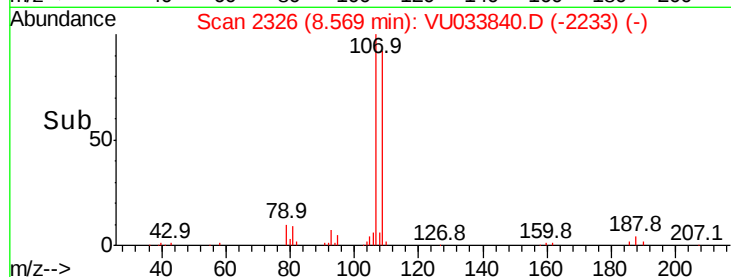
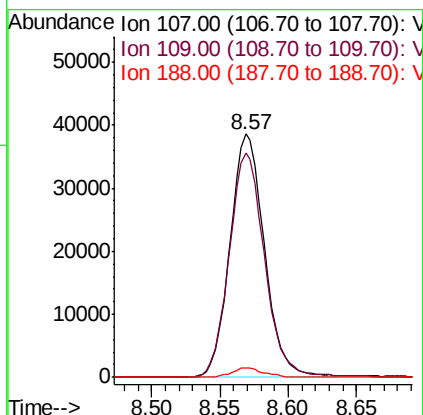
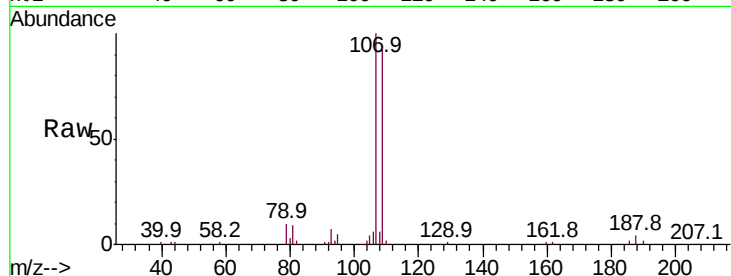




#50
 1,2-Dibromoethane
 Concen: 4.810 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

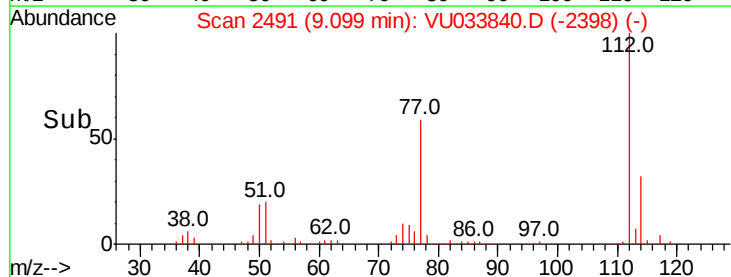
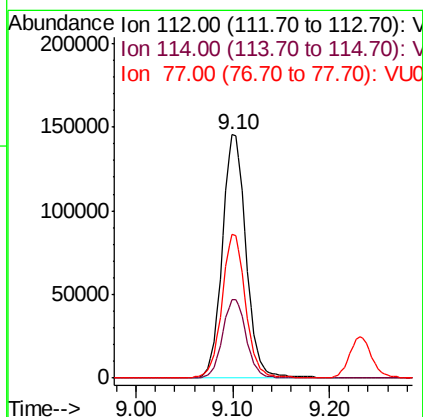
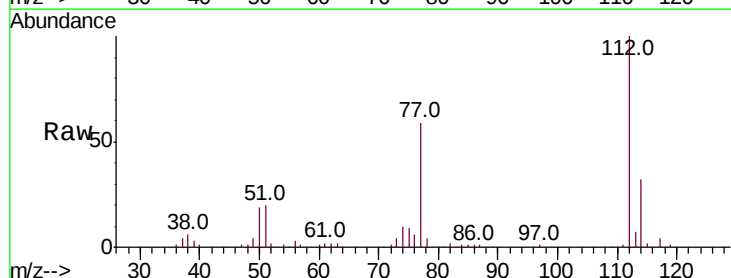
Instrument :
 MSVOA_U
 ClientSampleId :

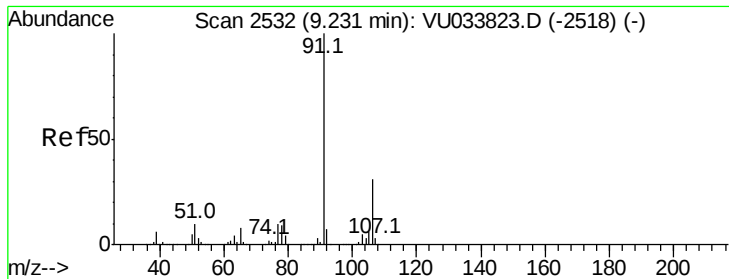
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.4	68.3	126.8
188	4.0	3.0	4.6



#51
 Chlorobenzene
 Concen: 4.868 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	58.9	45.3	67.9





#52

Ethylbenzene

Concen: 4.941 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

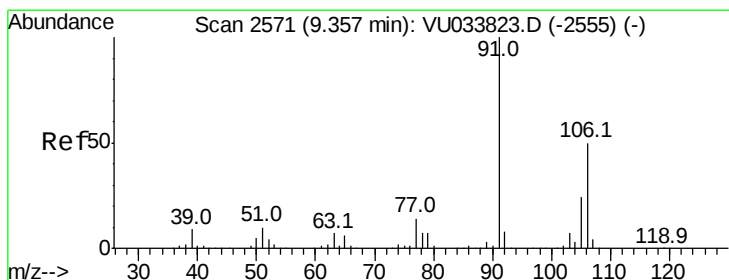
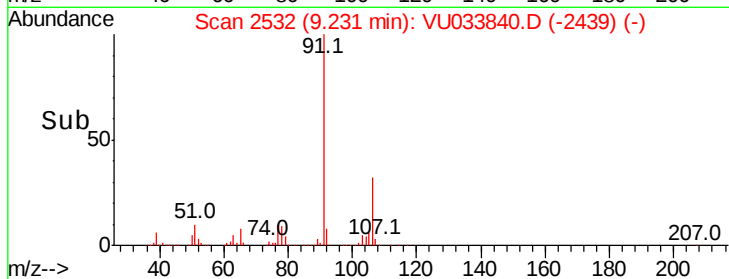
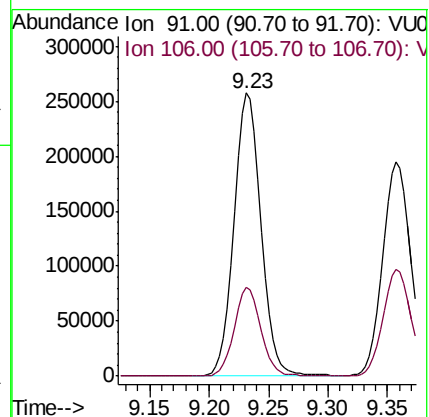
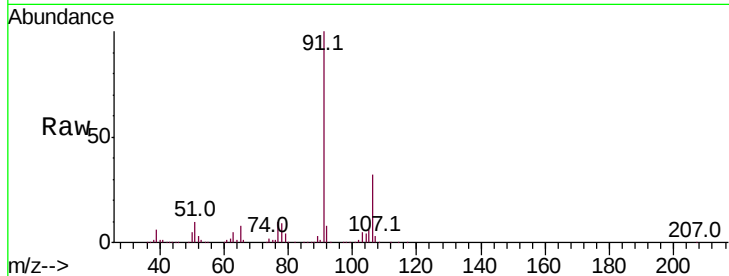
ClientSampled :

Tot Ion: 91 Resp: 405125

Ion Ratio Lower Upper

91 100

106 31.6 21.6 40.0



#53

m,p-Xylene

Concen: 5.120 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033840.D

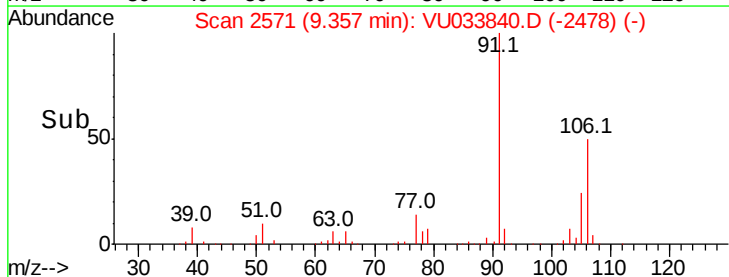
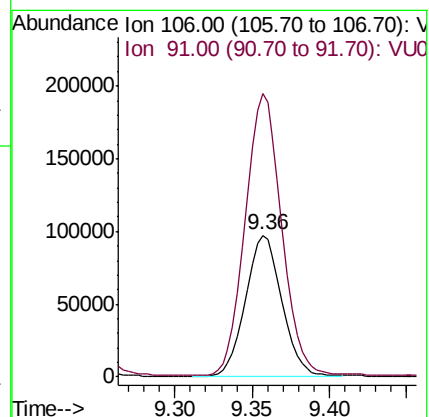
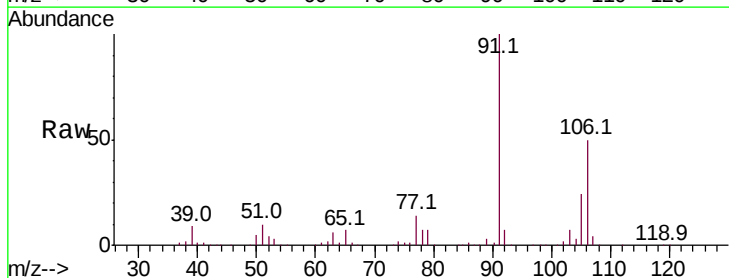
Acq: 19 Aug 2019 12:34

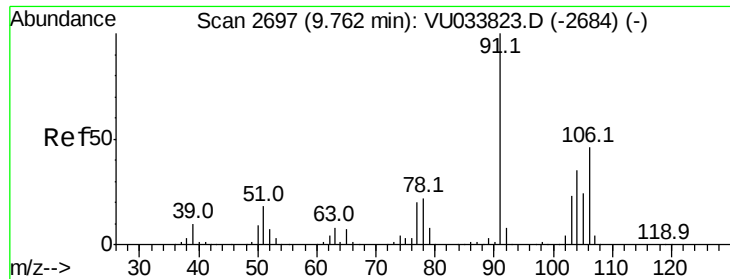
Tgt Ion:106 Resp: 158303

Ion Ratio Lower Upper

106 100

91 199.6 142.7 265.1





#54

o-Xylene

Concen: 5.216 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

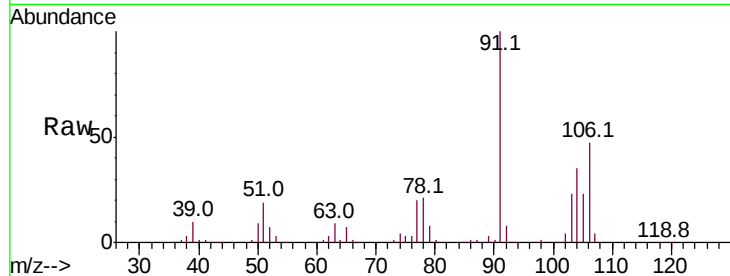
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 153138

Ion Ratio Lower Upper

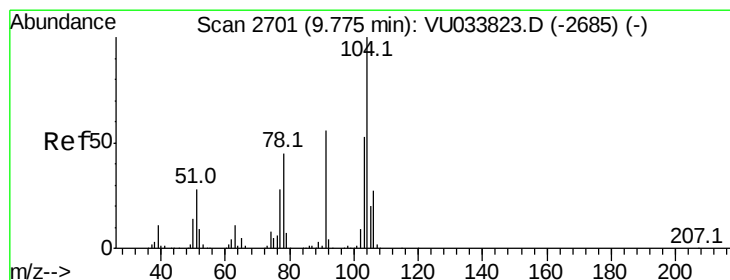
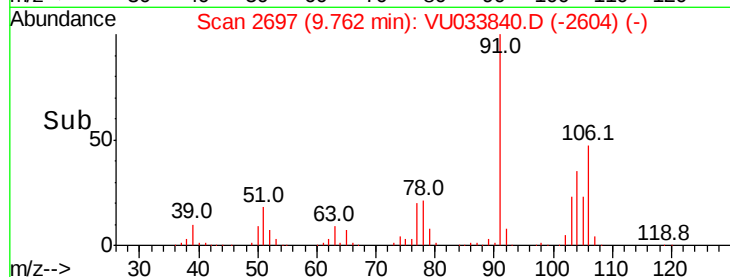
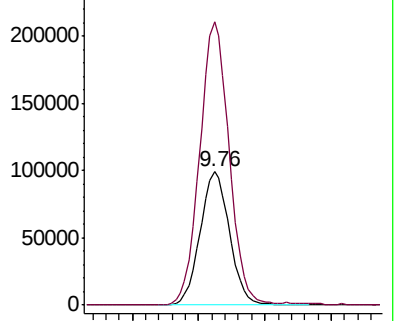
106 100

91 212.7 149.5 277.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 5.324 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033840.D

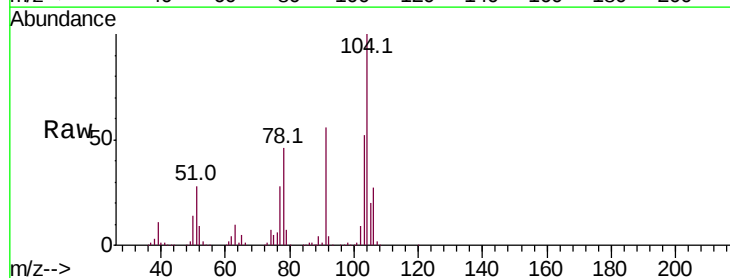
Acq: 19 Aug 2019 12:34

Tgt Ion:104 Resp: 271209

Ion Ratio Lower Upper

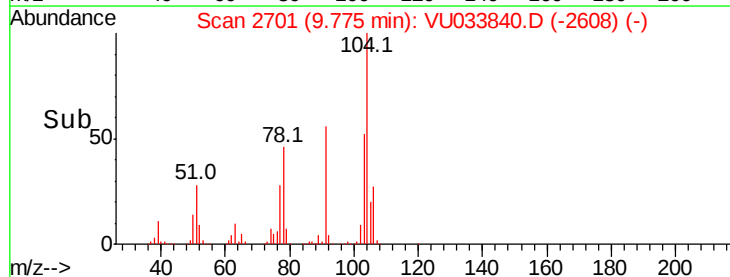
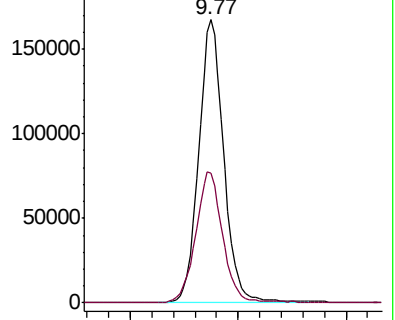
104 100

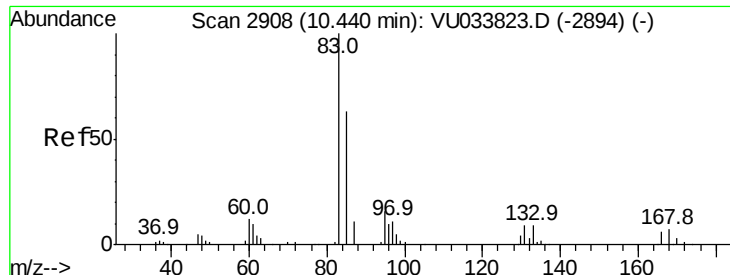
78 46.0 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 4.677 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

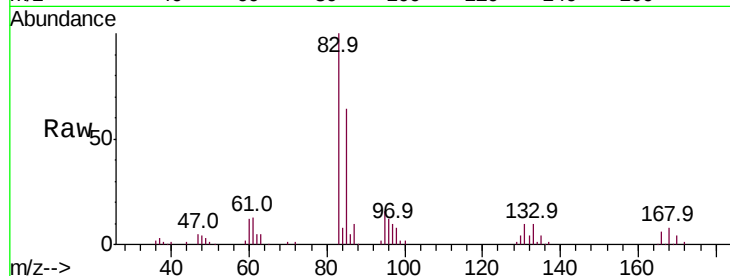
Tot Ion: 83 Resp: 89435

Ion Ratio Lower Upper

83 100

85 64.3 44.4 82.4

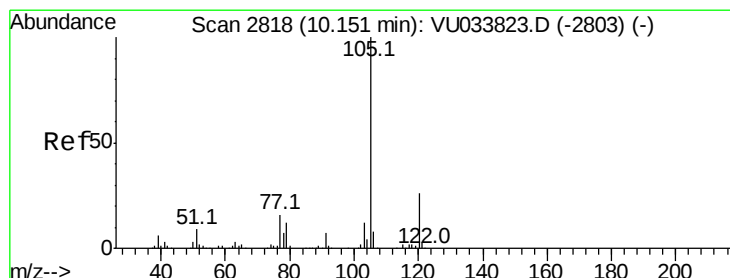
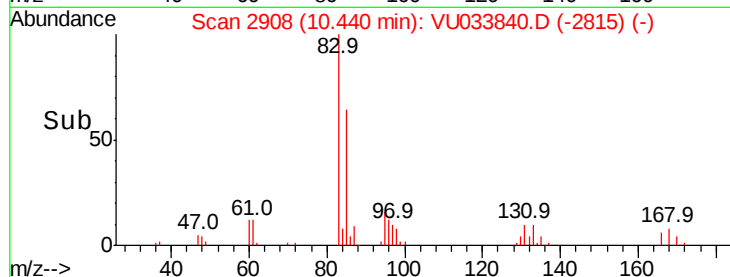
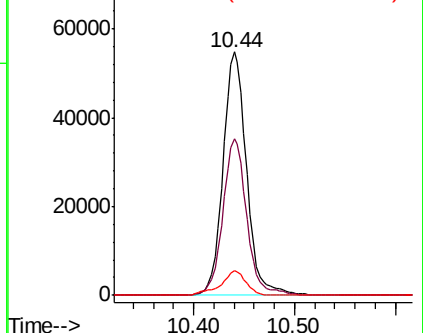
131 10.1 7.6 11.4



Abundance Ion 83.00 (82.70 to 83.70): VU033823.D (-2894) (-)

Ion 85.00 (84.70 to 85.70): VU033823.D (-2894) (-)

Ion 131.00 (130.70 to 131.70): VU033823.D (-2894) (-)



#59

Isopropylbenzene

Concen: 4.838 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

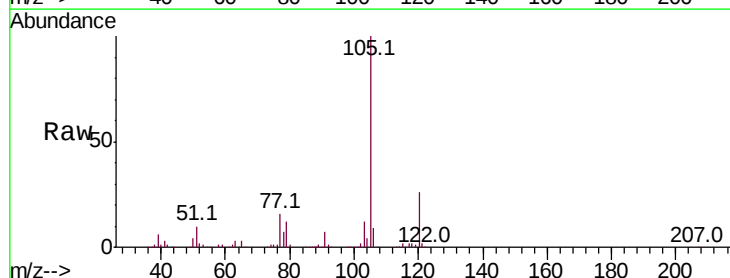
Tgt Ion:105 Resp: 393032

Ion Ratio Lower Upper

105 100

120 26.3 21.5 32.3

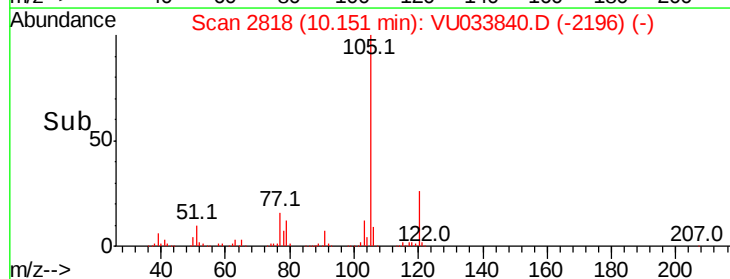
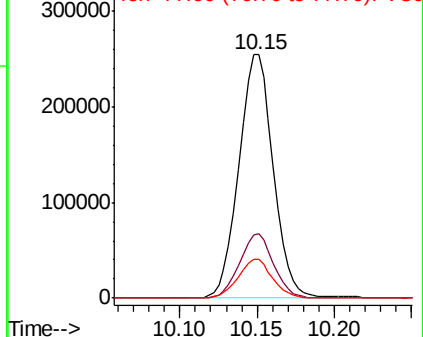
77 16.0 12.8 19.2

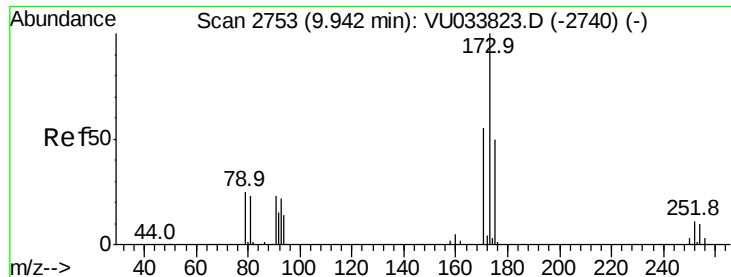


Abundance Ion 105.00 (104.70 to 105.70): VU033823.D (-2803) (-)

Ion 120.00 (119.70 to 120.70): VU033823.D (-2803) (-)

Ion 77.00 (76.70 to 77.70): VU033823.D (-2803) (-)

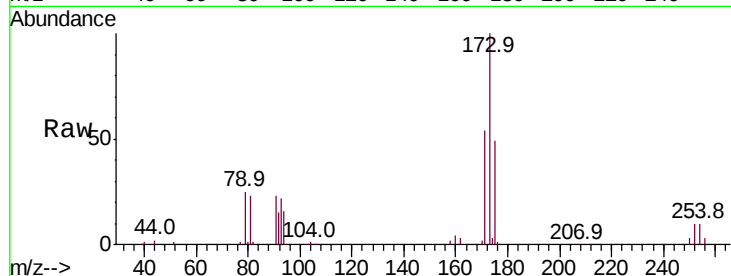




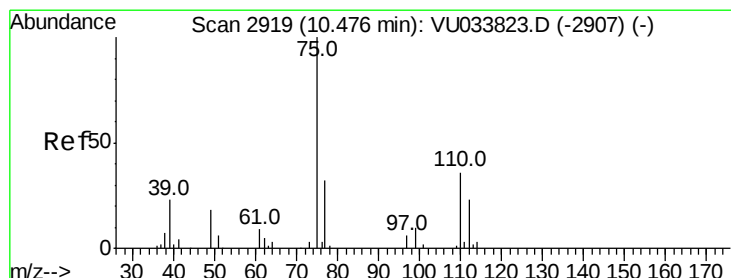
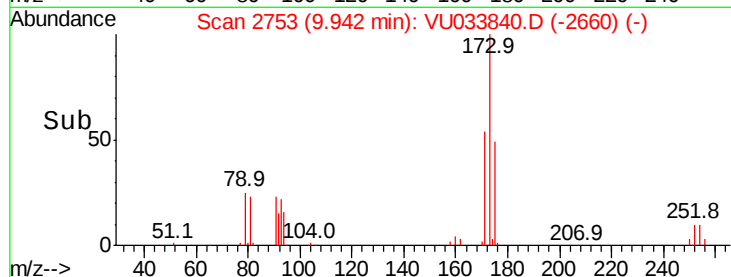
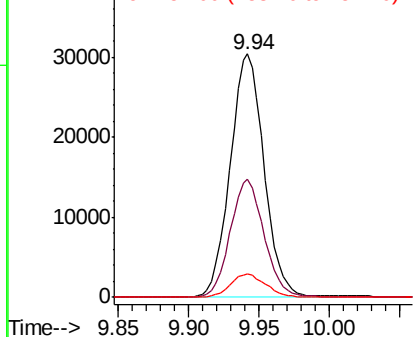
#60
Bromoform
Concen: 4.704 ug/L
RT: 9.94 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:173 Resp: 51206
Ion Ratio Lower Upper
173 100
175 48.3 36.6 55.0
254 9.9 7.0 10.4

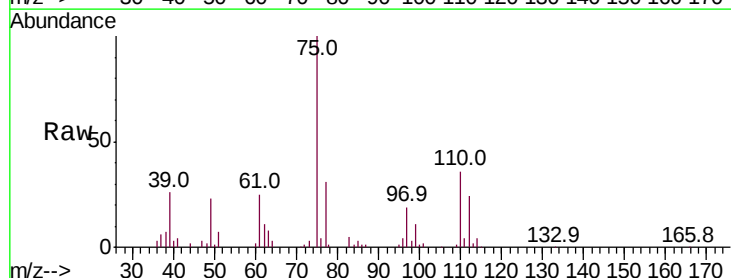


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

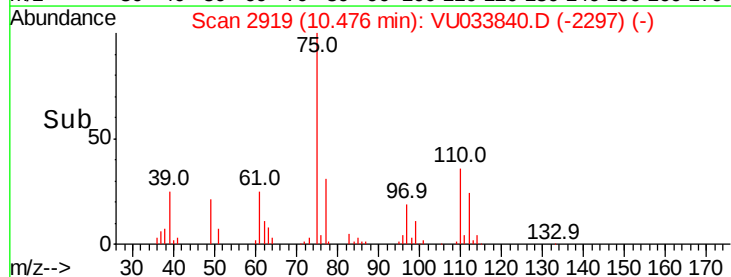
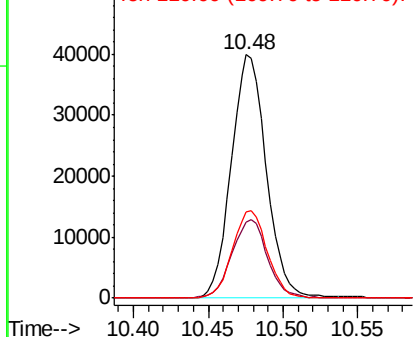


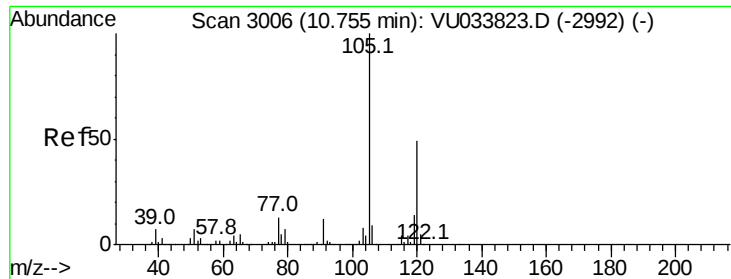
#61
1,2,3-Trichloropropane
Concen: 4.608 ug/L
RT: 10.48 min Scan# 2919
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Tgt Ion: 75 Resp: 65205
Ion Ratio Lower Upper
75 100
77 32.6 25.8 38.6
110 35.9 28.9 43.3



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0
Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 4.784 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

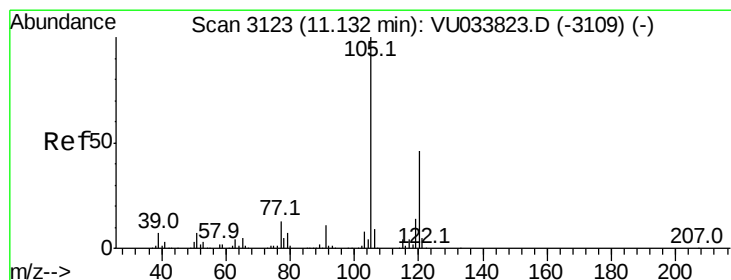
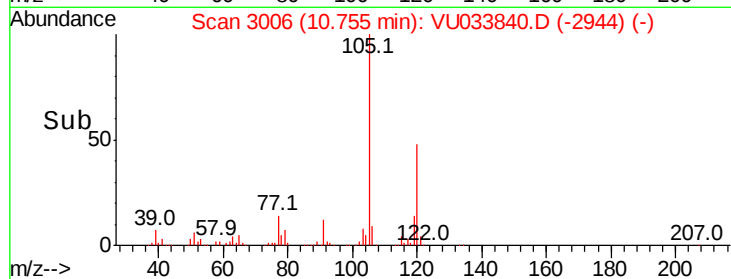
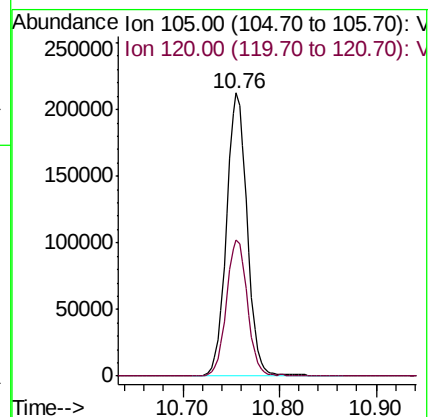
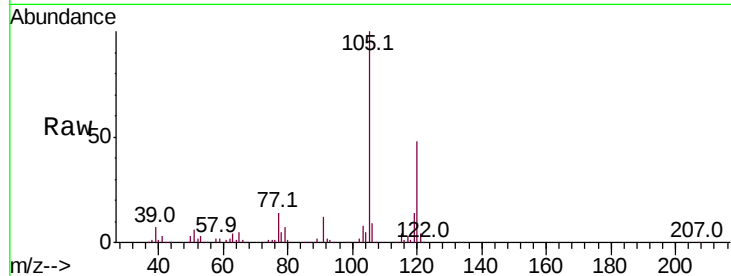
ClientSampleId :

Tot Ion:105 Resp: 315365

Ion Ratio Lower Upper

105 100

120 49.0 38.6 58.0



#63

1,2,4-Trimethylbenzene

Concen: 4.942 ug/L

RT: 11.13 min Scan# 3123

Delta R.T. -0.00 min

Lab File: VU033840.D

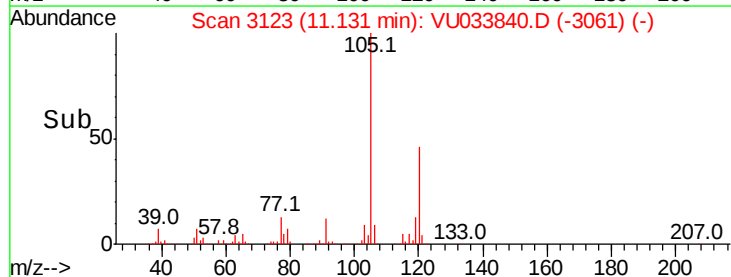
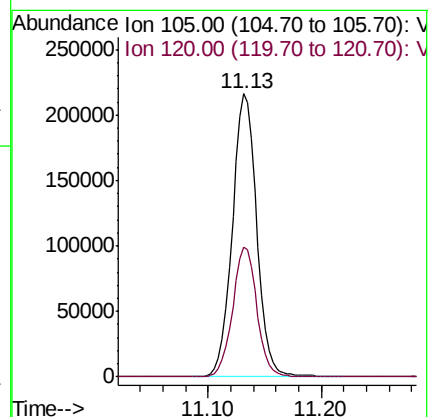
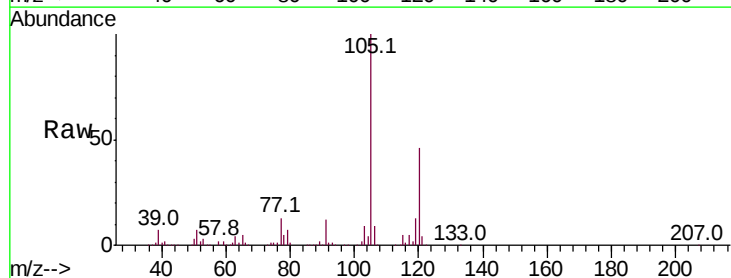
Acq: 19 Aug 2019 12:34

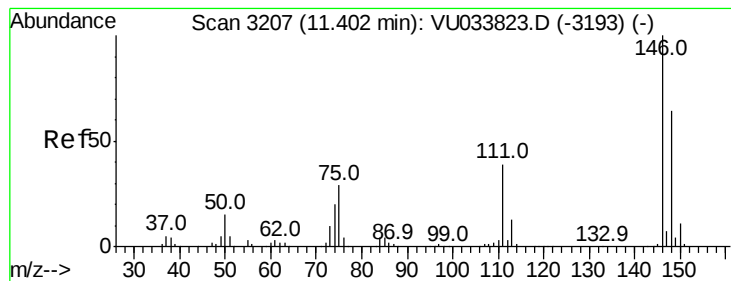
Tgt Ion:105 Resp: 325049

Ion Ratio Lower Upper

105 100

120 45.4 36.5 54.7





#64

1,3-Dichlorobenzene

Concen: 4.842 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

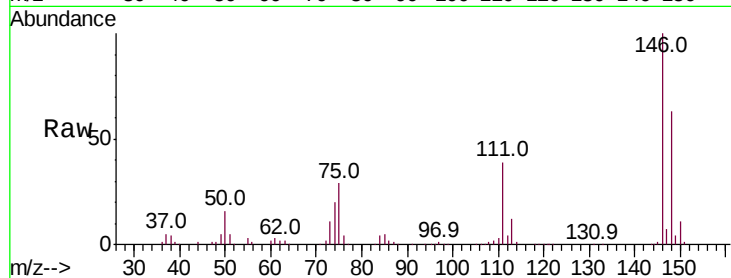
Tot Ion:146 Resp: 210334

Ion Ratio Lower Upper

146 100

111 39.5 28.5 52.9

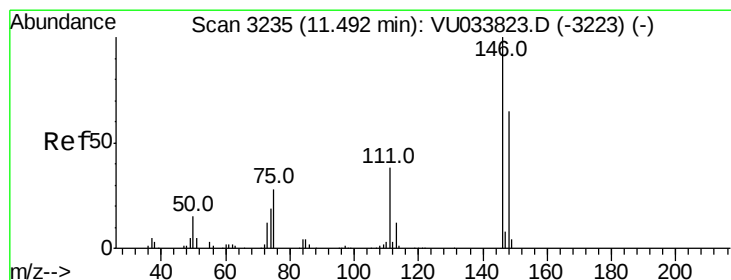
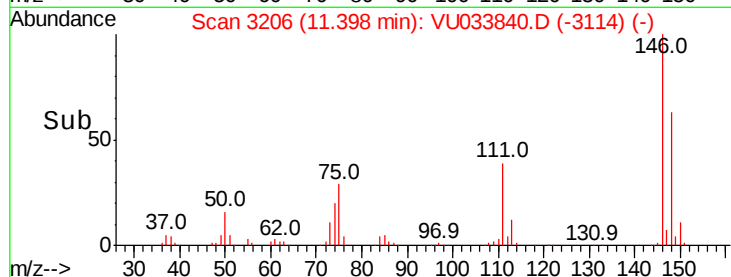
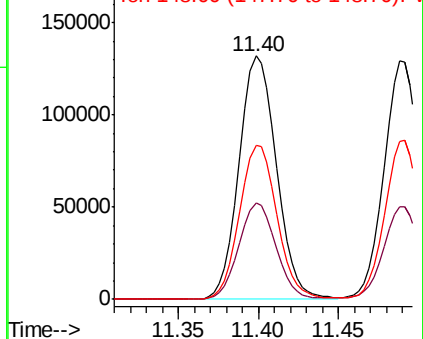
148 63.5 44.6 82.8



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



#65

1,4-Dichlorobenzene

Concen: 4.683 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

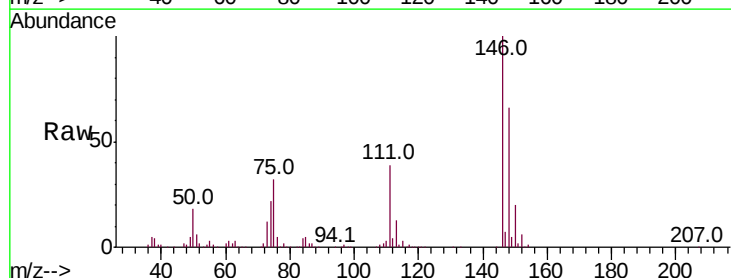
Tgt Ion:146 Resp: 209452

Ion Ratio Lower Upper

146 100

111 38.9 26.2 48.8

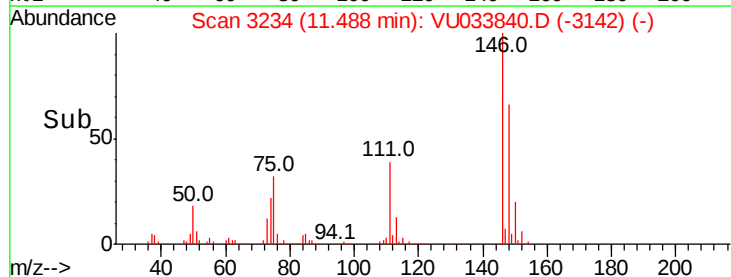
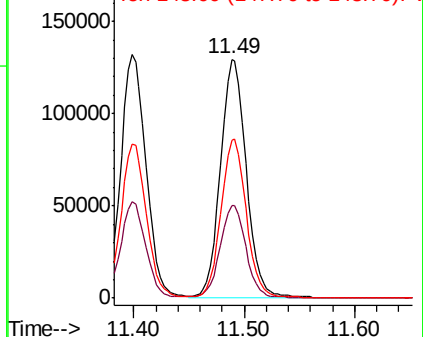
148 66.3 44.2 82.0

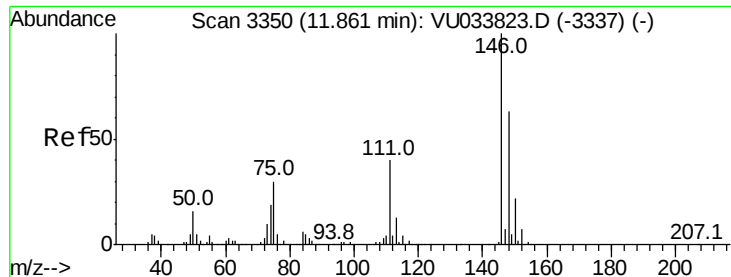


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dichlorobenzene

Concen: 4.726 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

Instrument :

MSVOA_U

ClientSampleId :

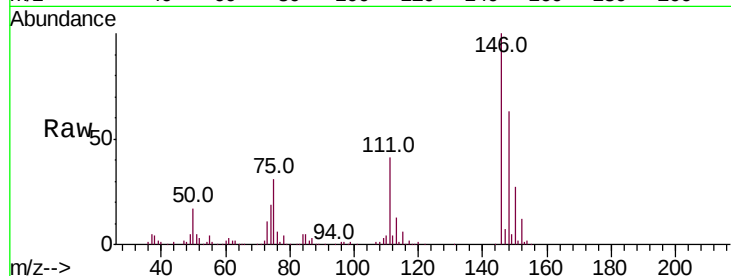
Tot Ion:146 Resp: 198211

Ion Ratio Lower Upper

146 100

111 41.1 32.7 49.1

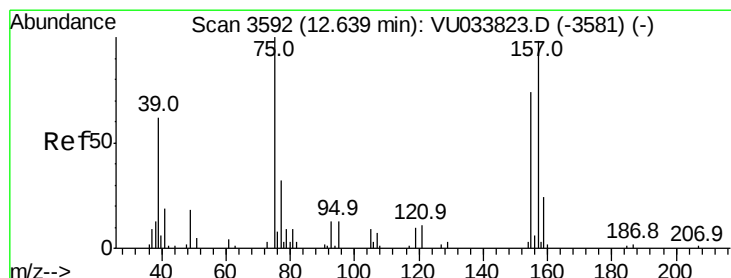
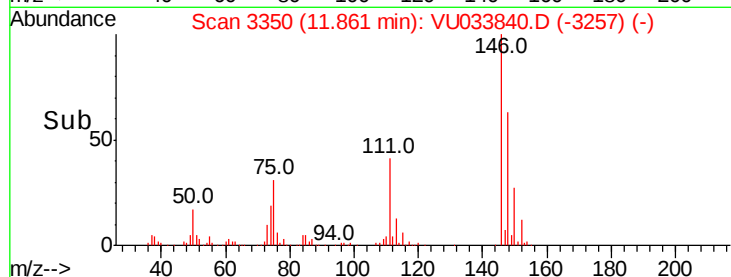
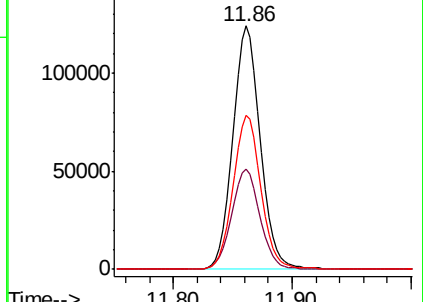
148 63.2 50.6 76.0



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



#68

1,2-Dibromo-3-chloropropane

Concen: 4.654 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033840.D

Acq: 19 Aug 2019 12:34

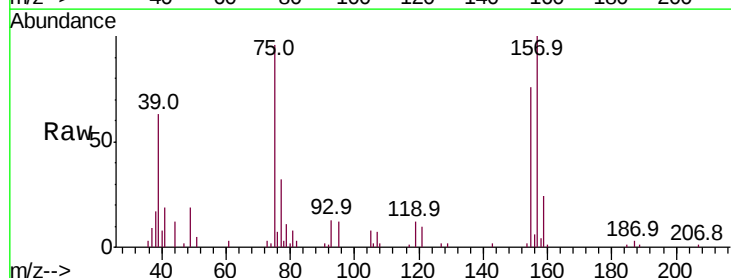
Tgt Ion: 75 Resp: 14374

Ion Ratio Lower Upper

75 100

155 78.8 67.3 100.9

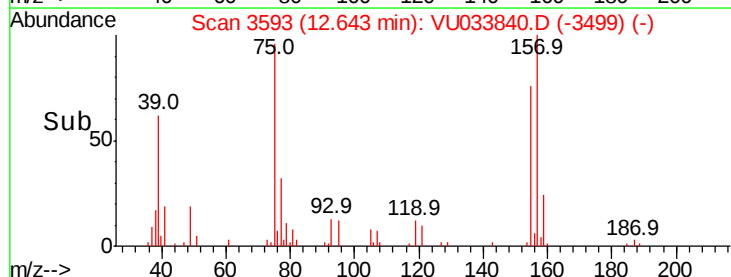
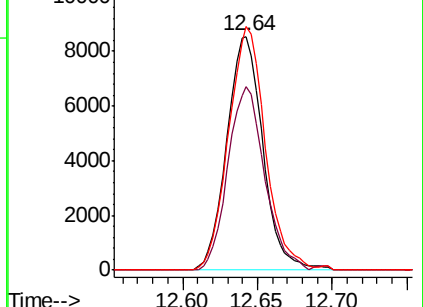
157 104.2 85.3 127.9

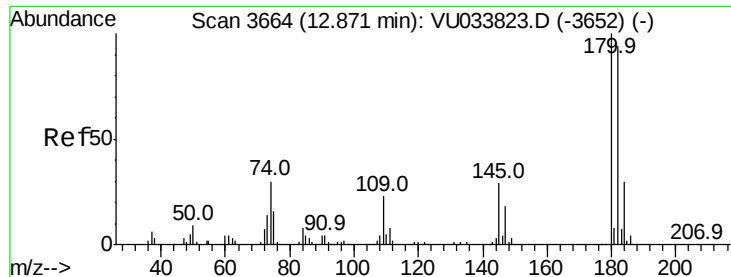


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

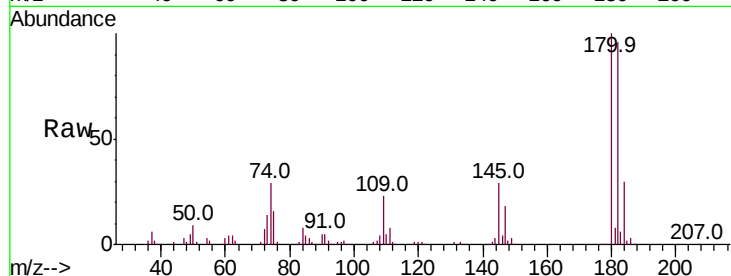




#69
 1,3,5-Trichlorobenzene
 Concen: 4.724 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	161409
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.6	114.8
184	30.2	24.4	36.6
145	29.1	23.3	34.9



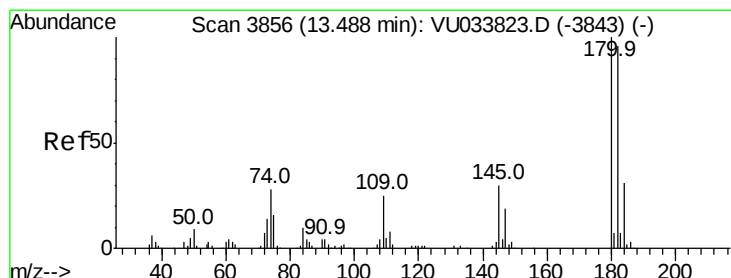
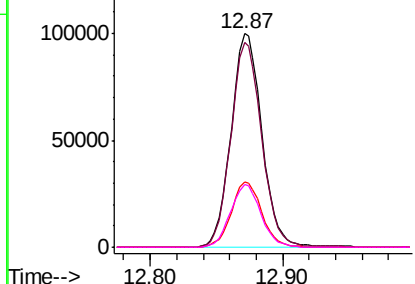
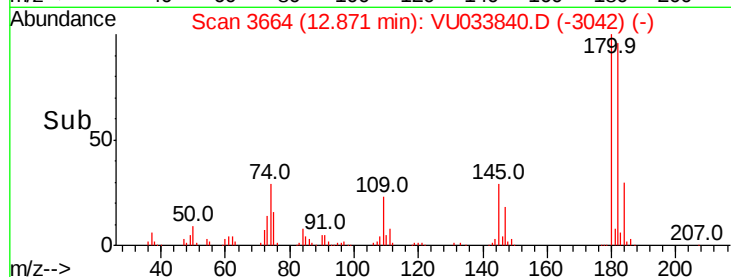
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

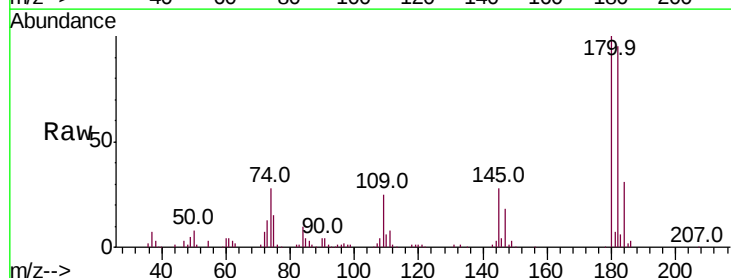
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 4.753 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033840.D
 Acq: 19 Aug 2019 12:34

Tgt Ion:	180	Resp:	126376
Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.4	116.2
145	28.5	23.5	35.3

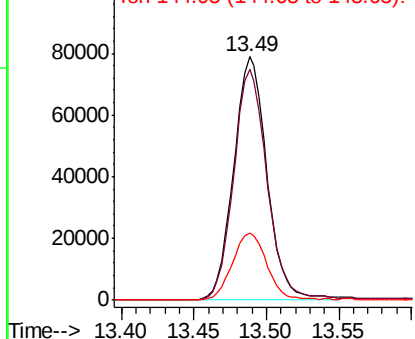
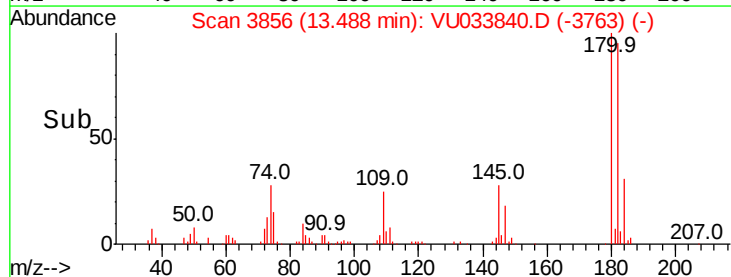


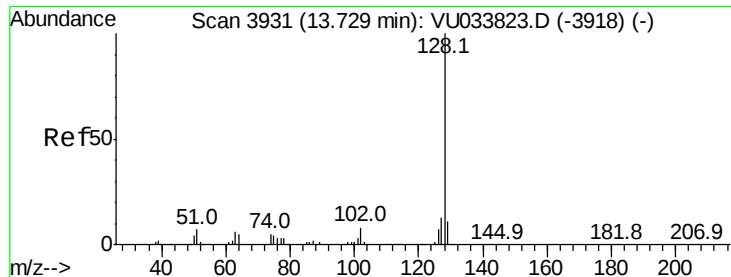
Abundance

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

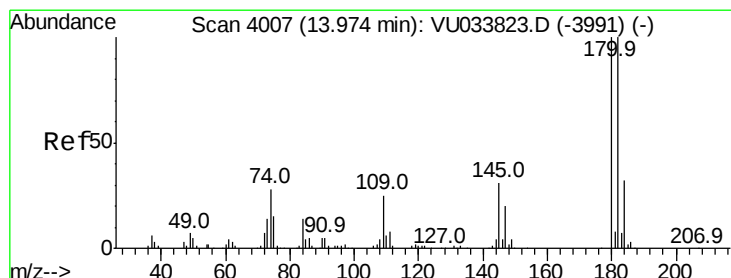
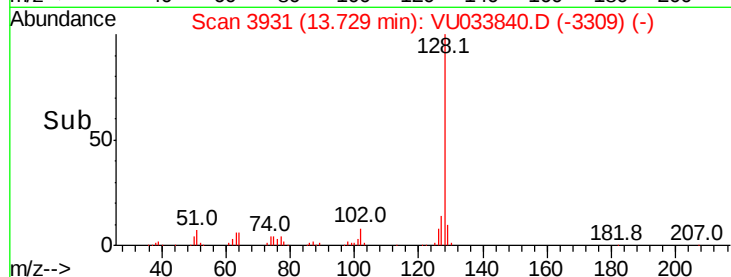
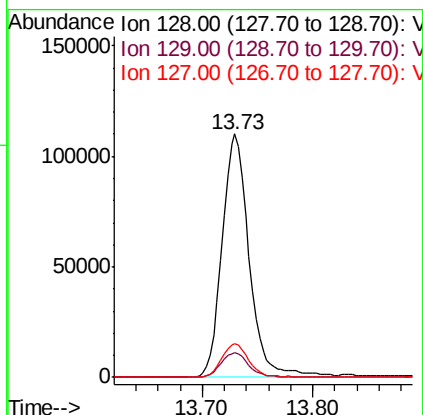
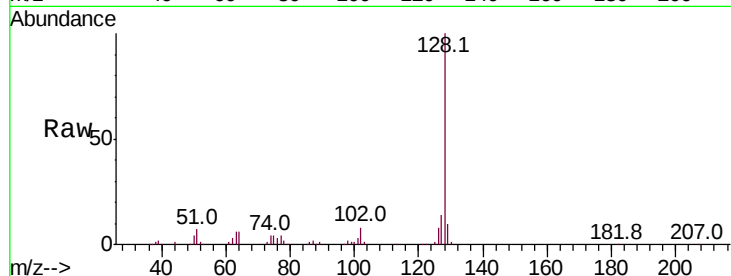




#71
Naphthalene
Concen: 4.611 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.5	12.7
127	13.9	11.2	16.8



#72
1,2,3-Trichlorobenzene
Concen: 4.855 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. -0.00 min
Lab File: VU033840.D
Acq: 19 Aug 2019 12:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.7	113.5
145	31.9	24.3	36.5

