

Data File : VU034980.D
Acq On : 08 Oct 2019 08:57
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

Quant Time: Oct 09 07:00:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 09 03:56:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	182179	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	184561	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	93852	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	48848	4.54	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.80%
7) Chloroethane-d5	1.67	69	47335	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.20%
11) 1,1-Dichloroethene-d2	2.26	63	105984	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.40%
20) 2-Butanone-d5	4.18	46	159929	50.43	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.86%
24) Chloroform-d	4.62	84	91049	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.29	65	57418	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
32) Benzene-d6	5.31	84	201147	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.31	67	67503	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.40%
41) Toluene-d8	7.54	98	195027	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
43) trans-1,3-Dichloropropene-	7.83	79	23612	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.30	63	120511	48.66	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.32%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	58922	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	74811	4.73	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	85525	5.137 ug/L	99
3) Chloromethane	1.32	50	92247	5.051 ug/L	98
5) Vinyl chloride	1.40	62	93513	5.213 ug/L	98
6) Bromomethane	1.62	94	49783	4.992 ug/L	99
8) Chloroethane	1.69	64	55131	5.124 ug/L	98
9) Trichlorofluoromethane	1.88	101	113825	5.246 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	64475	5.175 ug/L	100
12) 1,1-Dichloroethene	2.27	96	60675	5.185 ug/L	91
13) Acetone	2.32	43	132397	50.974 ug/L	97
14) Carbon disulfide	2.46	76	196221	5.039 ug/L	98
15) Methyl Acetate	2.61	43	34051	4.925 ug/L	96
16) Methylene chloride	2.68	84	72184	4.983 ug/L	94
17) Methyl tert-butyl Ether	2.99	73	164103	5.140 ug/L	99
18) trans-1,2-Dichloroethene	2.96	96	64945	5.183 ug/L	98
19) 1,1-Dichloroethane	3.42	63	129741	5.210 ug/L	97
21) 2-Butanone	4.26	43	202583	54.769 ug/L	99
22) cis-1,2-Dichloroethene	4.20	96	70794	5.065 ug/L	99

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ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

Quant Time: Oct 09 07:00:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 09 03:56:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	31534	5.383	ug/L	95
25) Chloroform	4.65	83	141928	5.072	ug/L	98
27) 1,2-Dichloroethane	5.38	62	85419	5.227	ug/L	100
29) 1,1,1-Trichloroethane	4.89	97	103668	5.001	ug/L	99
30) Cyclohexane	4.96	56	107343	4.710	ug/L	98
31) Carbon tetrachloride	5.11	117	91890	5.113	ug/L	99
33) Benzene	5.36	78	279267	5.023	ug/L	100
34) Trichloroethene	6.16	95	71400	4.980	ug/L	97
35) Methylcyclohexane	6.39	83	112180	4.831	ug/L	97
37) 1,2-Dichloropropane	6.41	63	75508	5.035	ug/L	100
38) Bromodichloromethane	6.73	83	87549	4.980	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	100568	4.950	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	472125	50.022	ug/L	100
42) Toluene	7.61	91	300667	5.181	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	79600	5.059	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	51703	5.193	ug/L	98
47) Tetrachloroethene	8.21	164	59833	5.156	ug/L	96
48) 2-Hexanone	8.35	43	327770	50.649	ug/L	100
49) Dibromochloromethane	8.46	129	59333	5.155	ug/L	95
50) 1,2-Dibromoethane	8.57	107	49435	5.195	ug/L	97
51) Chlorobenzene	9.10	112	190586	5.068	ug/L	100
52) Ethylbenzene	9.23	91	325465	5.078	ug/L	98
53) m,p-Xylene	9.35	106	121141	5.117	ug/L	99
54) o-Xylene	9.76	106	118442	5.115	ug/L	98
55) Styrene	9.77	104	198482	5.294	ug/L	99
56) Isopropylbenzene	10.14	105	317706	5.150	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	69770	5.152	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	49979	5.149	ug/L	100
61) Bromoform	9.94	173	31495	4.893	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	149049	5.155	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	148361	5.084	ug/L	99
65) 1,2-Dichlorobenzene	11.85	146	140581	5.039	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.64	75	8595	4.848	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	101828	5.201	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	74847	5.119	ug/L	98
69) Naphthalene	13.72	128	100052	4.401	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	71851	5.054	ug/L	98

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

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ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

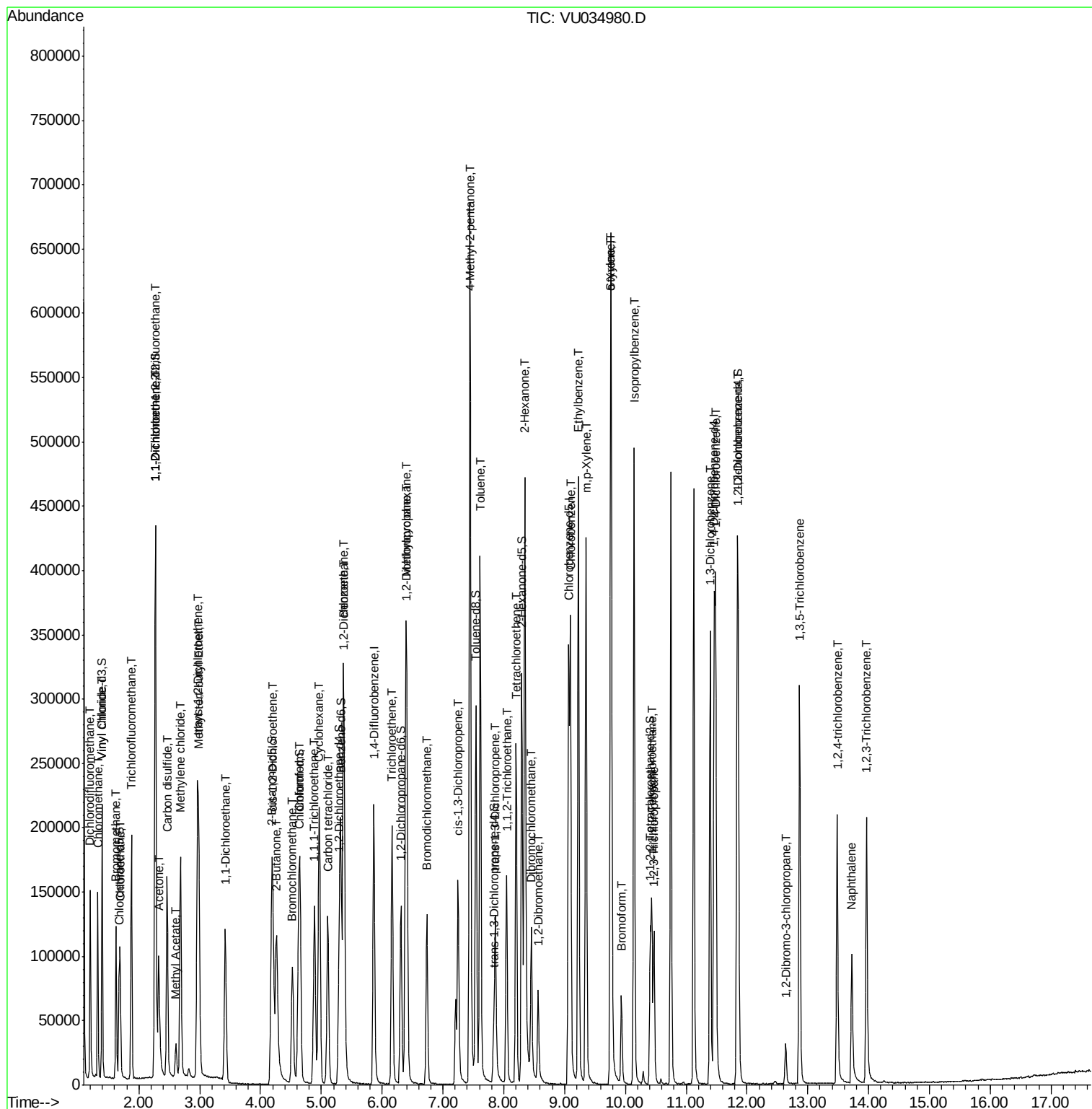
Quant Time: Oct 09 07:00:57 2019

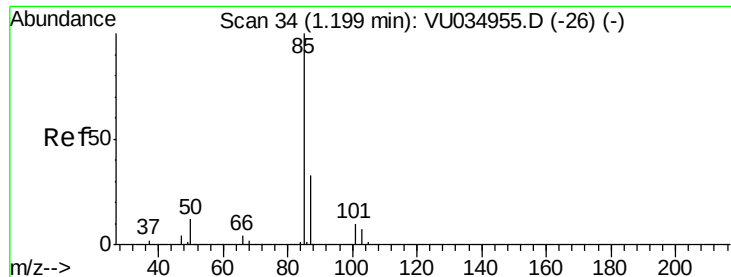
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR100719WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 09 03:56:49 2019

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#2

Dichlorodifluoromethane

Concen: 5.137 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

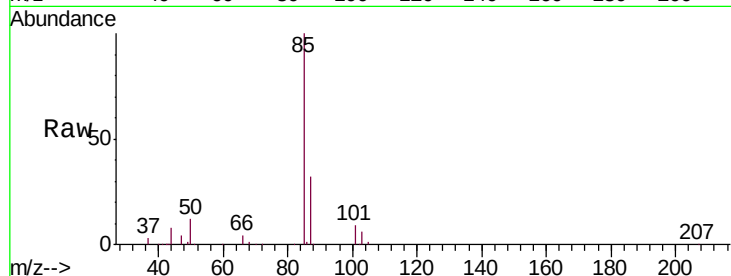
VSTD00530

Tgt Ion: 85 Resp: 85525

Ion Ratio Lower Upper

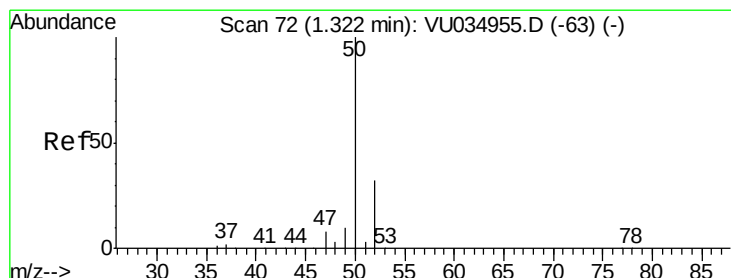
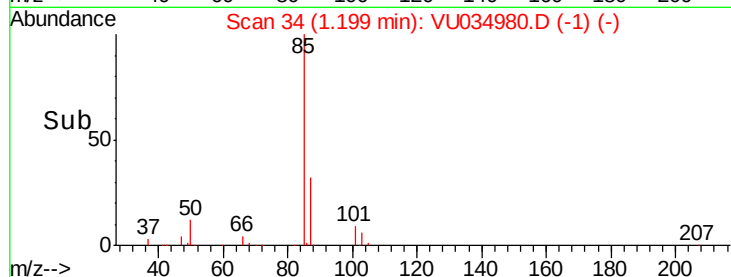
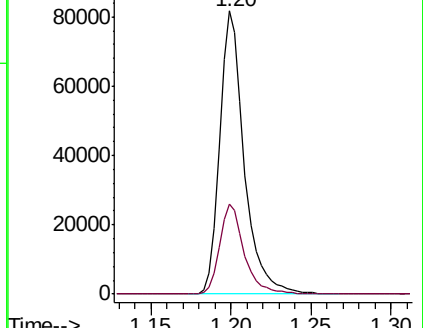
85 100

87 31.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU034955.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034955.D (-26) (-)



#3

Chloromethane

Concen: 5.051 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034980.D

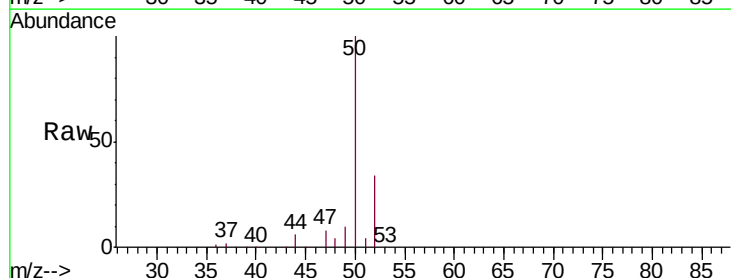
Acq: 08 Oct 2019 08:57

Tgt Ion: 50 Resp: 92247

Ion Ratio Lower Upper

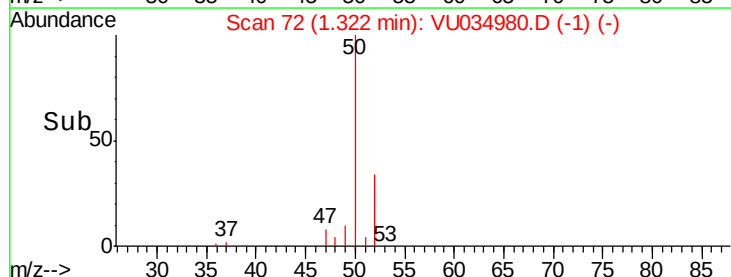
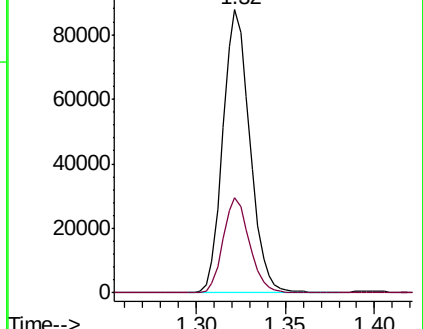
50 100

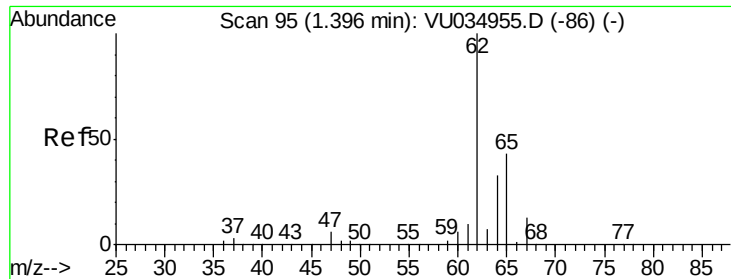
52 33.7 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU034955.D (-63) (-)

Ion 52.05 (51.75 to 52.75): VU034955.D (-63) (-)





#5

Vinyl chloride

Concen: 5.213 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

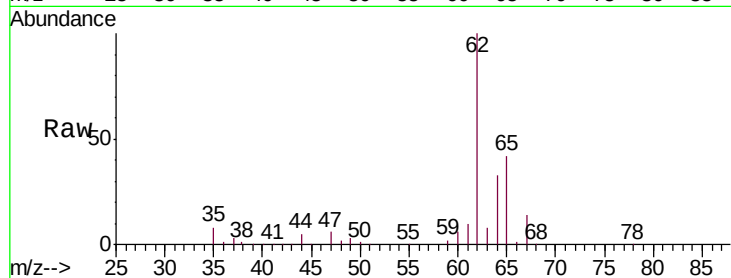
VSTD00530

Tgt Ion: 62 Resp: 93513

Ion Ratio Lower Upper

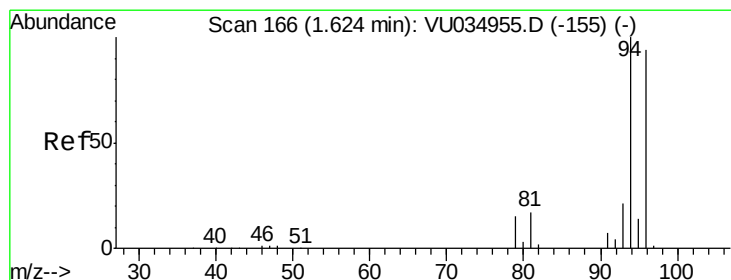
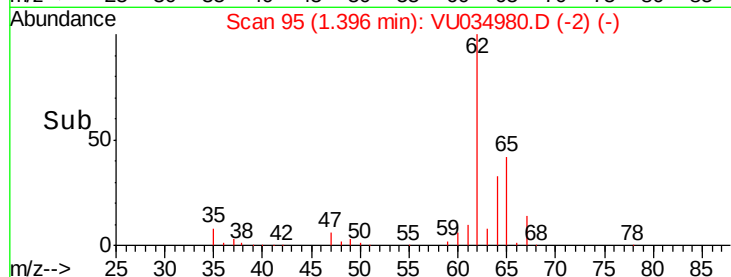
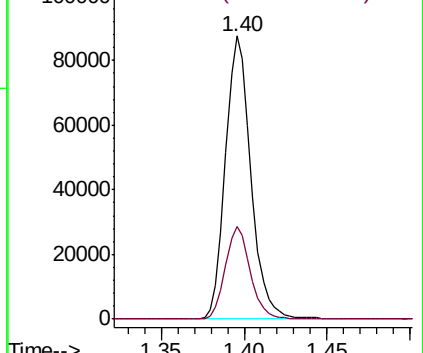
62 100

64 32.9 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU034955.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU034955.D (-86) (-)



#6

Bromomethane

Concen: 4.992 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU034980.D

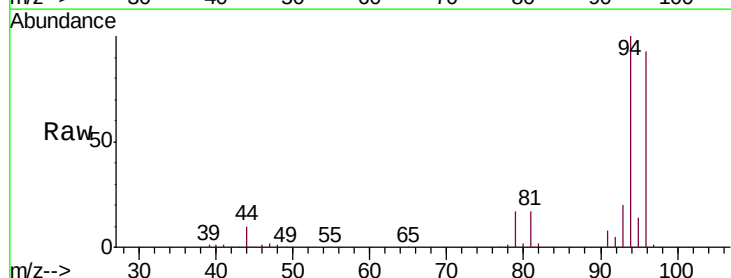
Acq: 08 Oct 2019 08:57

Tgt Ion: 94 Resp: 49783

Ion Ratio Lower Upper

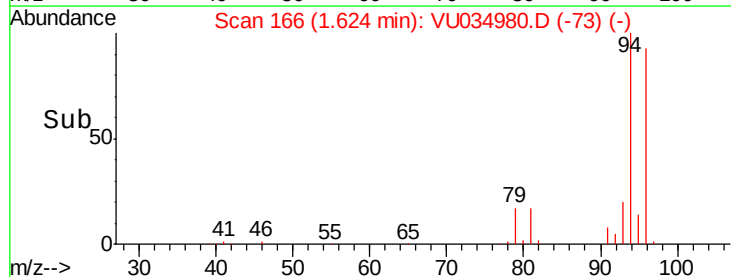
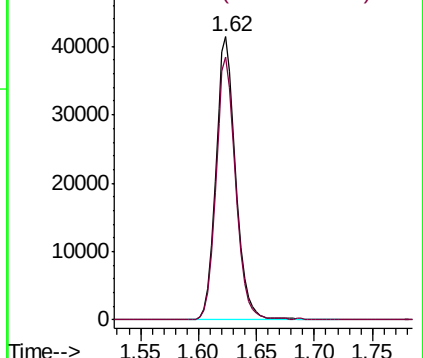
94 100

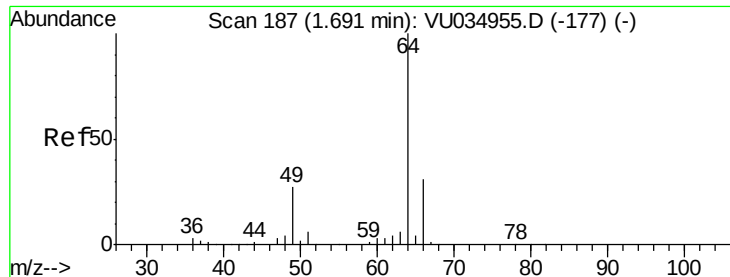
96 92.8 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VU034955.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU034955.D (-155) (-)





#8

Chloroethane

Concen: 5.124 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

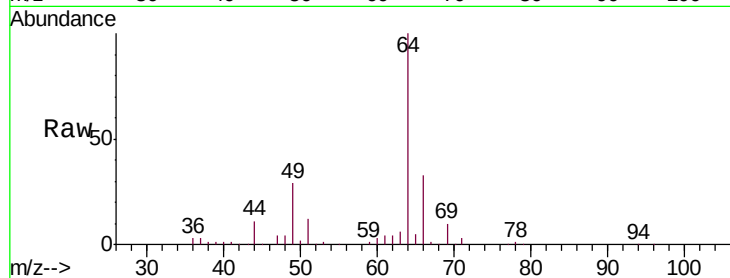
VSTD00530

Tgt Ion: 64 Resp: 55131

Ion Ratio Lower Upper

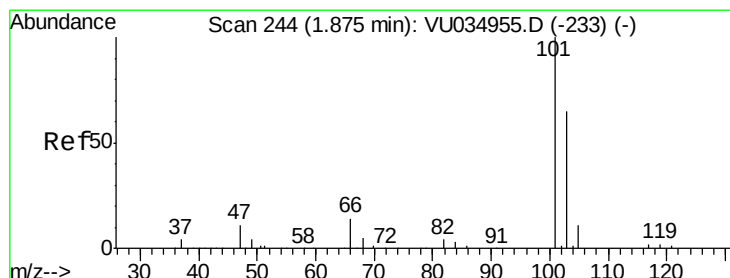
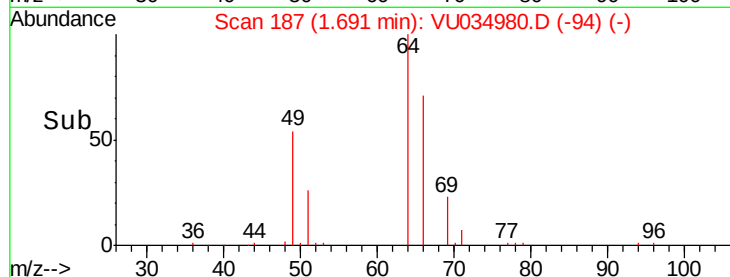
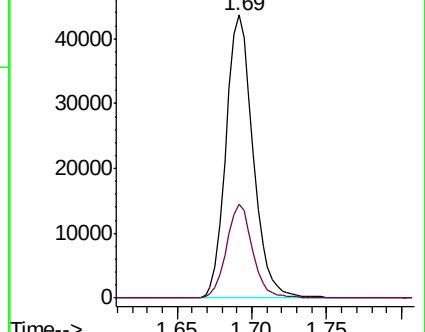
64 100

66 33.1 22.4 41.6



Abundance Ion 64.10 (63.80 to 64.80): VU034955.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU034980.D (-151) (-)



#9

Trichlorofluoromethane

Concen: 5.246 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU034980.D

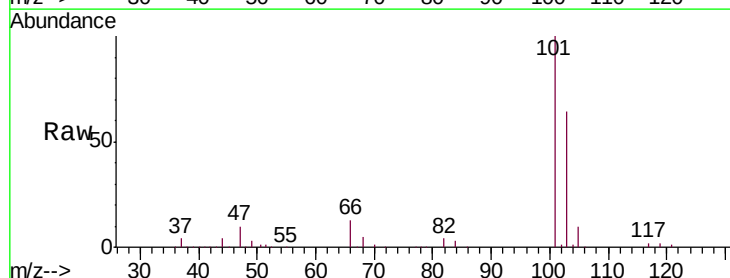
Acq: 08 Oct 2019 08:57

Tgt Ion: 101 Resp: 113825

Ion Ratio Lower Upper

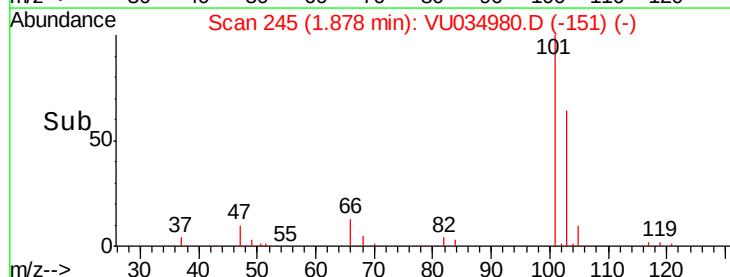
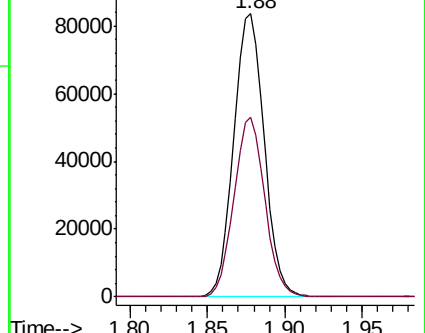
101 100

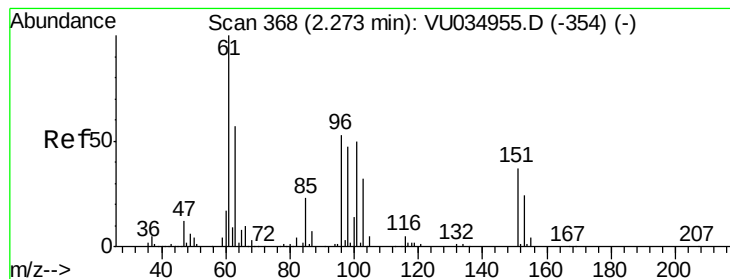
103 64.1 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU034955.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034980.D (-151) (-)





#10

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

Concen: 5.175 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034980.D

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ClientSampleId :

VSTD00530

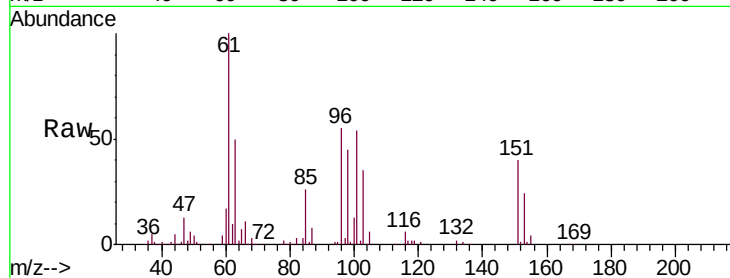
Tgt Ion:101 Resp: 64475

Ion Ratio Lower Upper

101 100

85 45.7 36.7 55.1

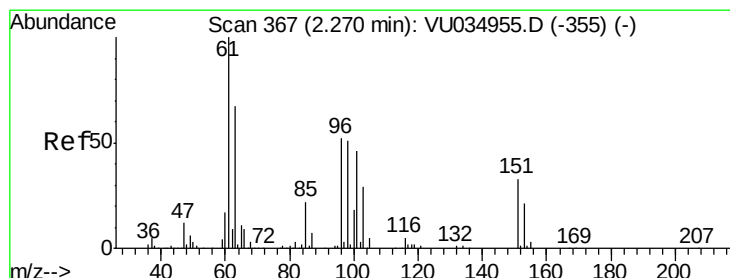
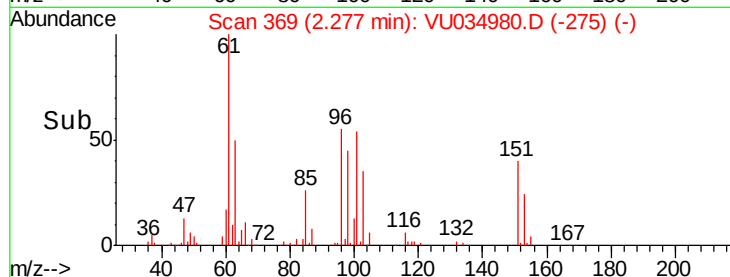
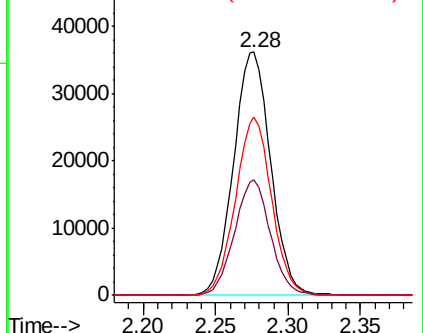
151 71.2 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.185 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

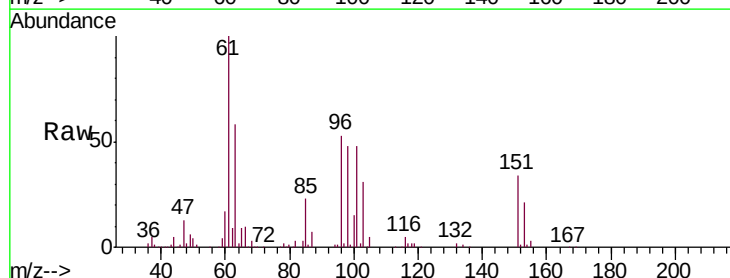
Tgt Ion: 96 Resp: 60675

Ion Ratio Lower Upper

96 100

61 188.9 132.6 246.2

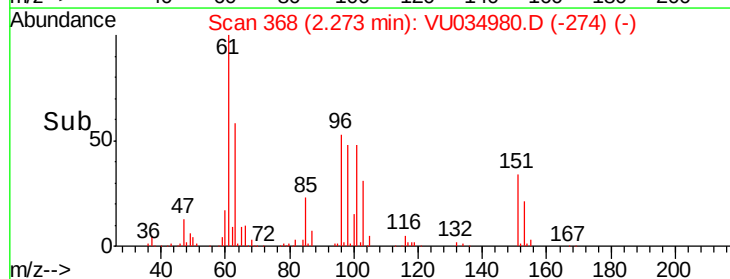
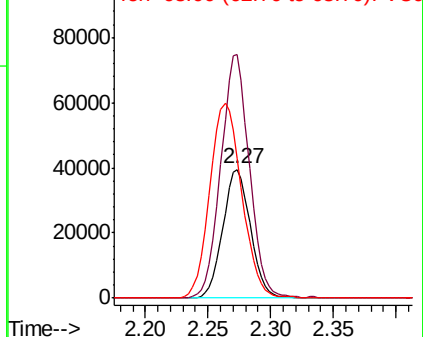
63 108.7 94.3 175.1

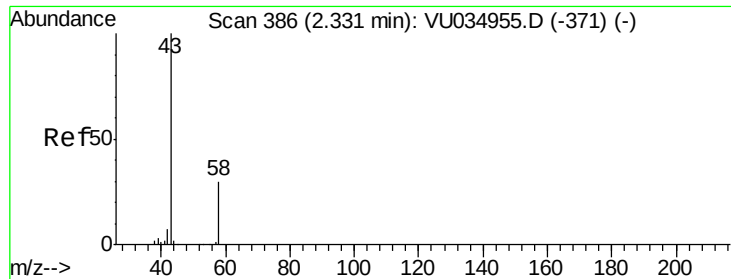


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 50.974 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

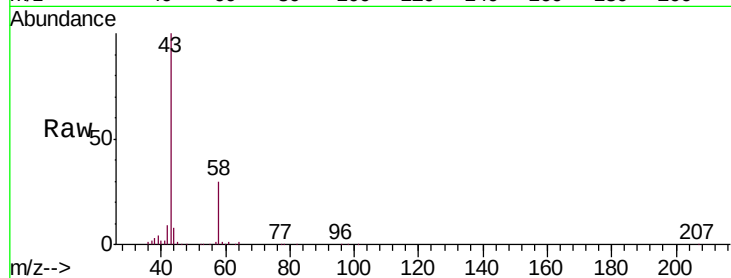
VSTD00530

Tgt Ion: 43 Resp: 132397

Ion Ratio Lower Upper

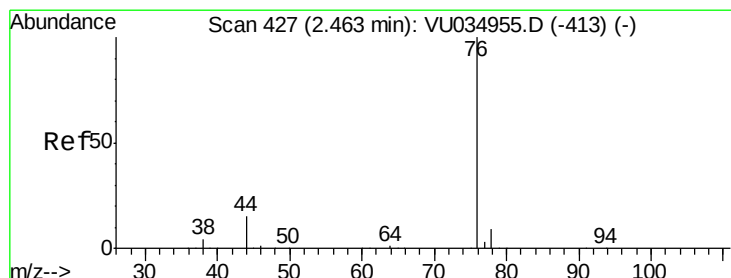
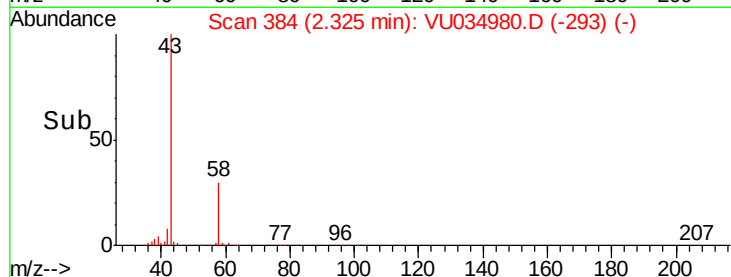
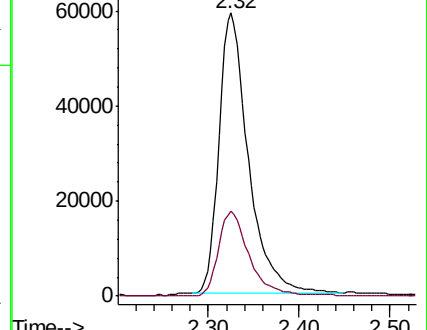
43 100

58 32.1 0.0 60.8



Abundance Ion 43.05 (42.75 to 43.75): VU034955.D (-371) (-)

Ion 58.05 (57.75 to 58.75): VU034955.D (-371) (-)



#14

Carbon disulfide

Concen: 5.039 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034980.D

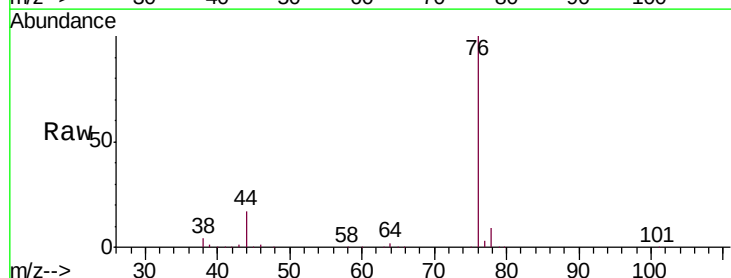
Acq: 08 Oct 2019 08:57

Tgt Ion: 76 Resp: 196221

Ion Ratio Lower Upper

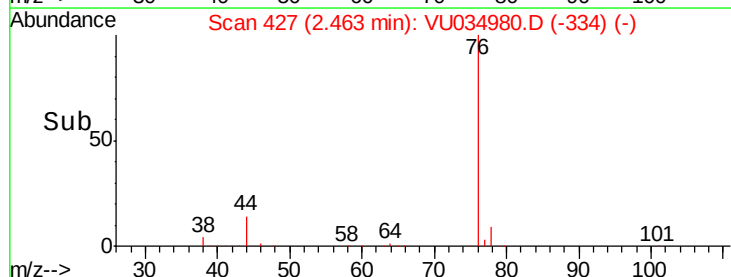
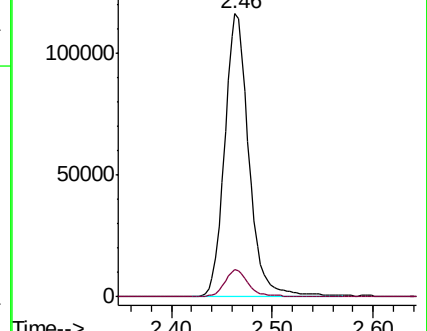
76 100

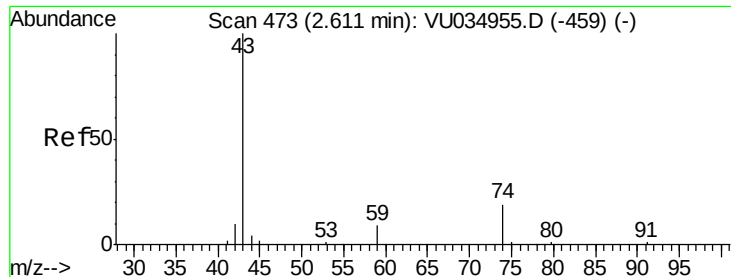
78 9.5 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU034955.D (-413) (-)

Ion 78.00 (77.70 to 78.70): VU034955.D (-413) (-)





#15

Methyl Acetate

Concen: 4.925 ug/L

RT: 2.61 min Scan# 472

Delta R.T. -0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

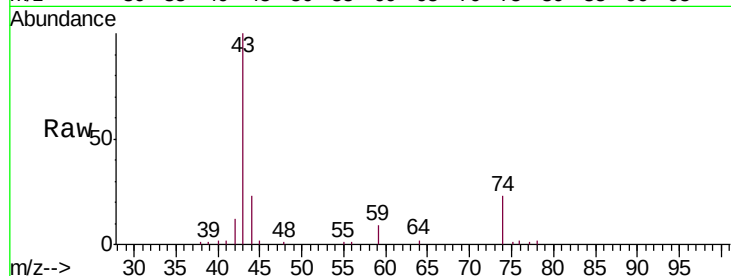
VSTD00530

Tgt Ion: 43 Resp: 34051

Ion Ratio Lower Upper

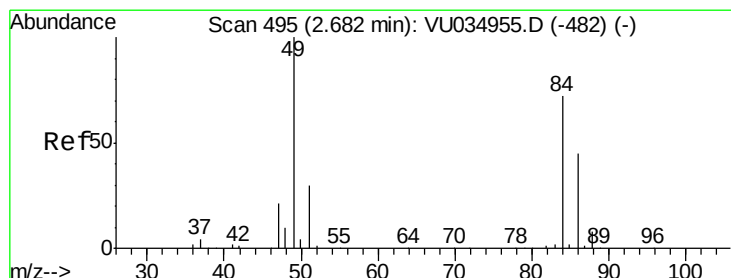
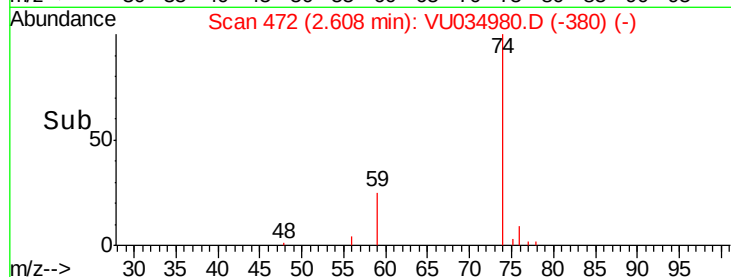
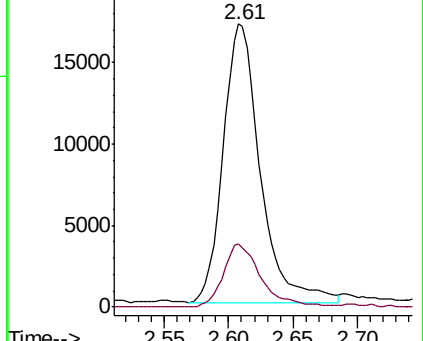
43 100

74 23.1 17.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU034980.D (-402) (-)

Ion 74.05 (73.75 to 74.75): VU034980.D (-402) (-)



#16

Methylene chloride

Concen: 4.983 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

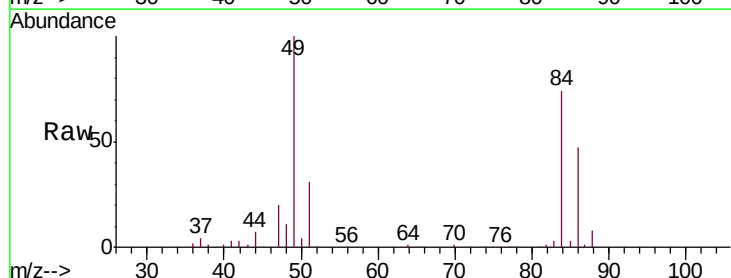
Tgt Ion: 84 Resp: 72184

Ion Ratio Lower Upper

84 100

86 63.5 46.3 86.1

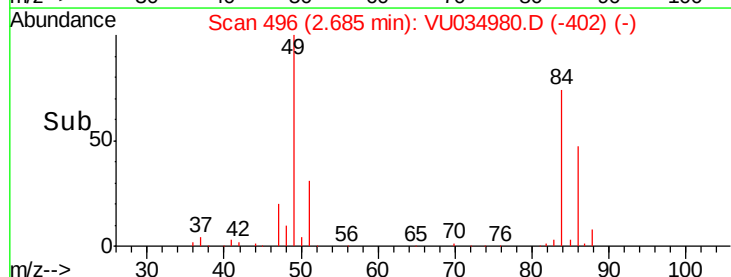
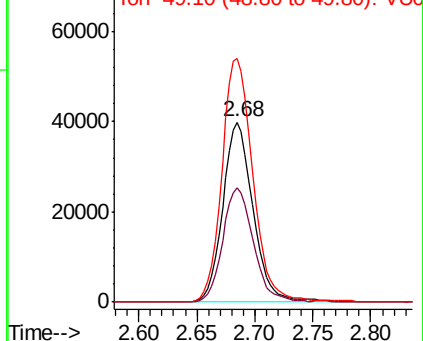
49 135.3 101.4 188.4

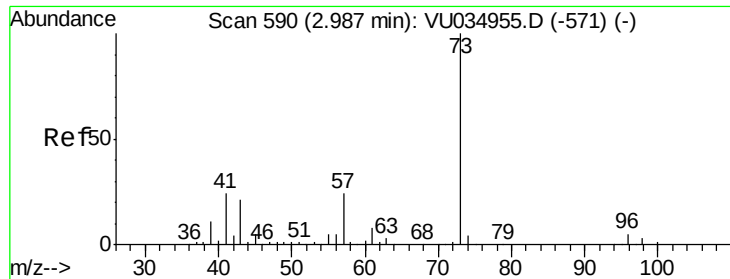


Abundance Ion 84.05 (83.75 to 84.75): VU034980.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU034980.D (-402) (-)

Ion 49.10 (48.80 to 49.80): VU034980.D (-402) (-)





#17

Methyl tert-butyl Ether

Concen: 5.140 ug/L

RT: 2.99 min Scan# 590

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

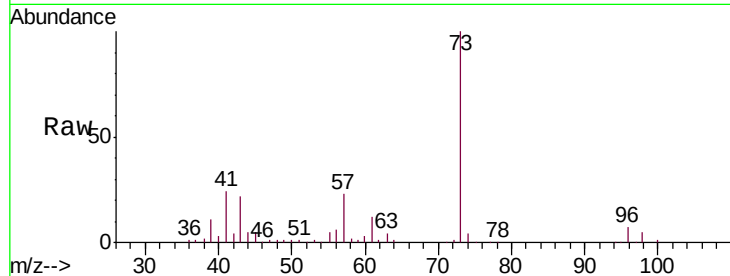
Tgt Ion: 73 Resp: 164103

Ion Ratio Lower Upper

73 100

43 21.9 17.4 26.0

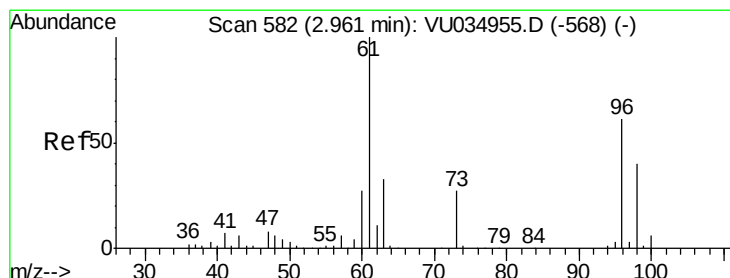
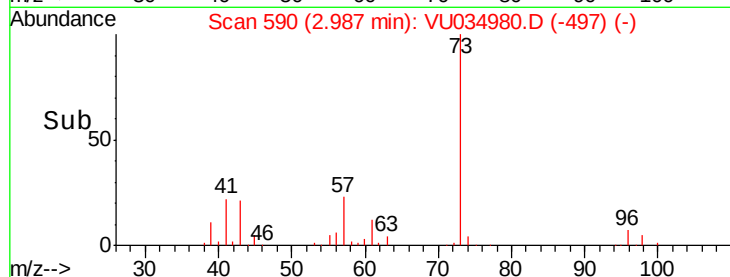
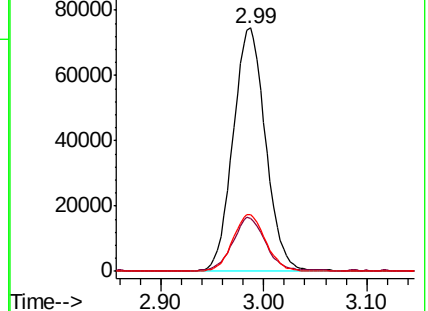
57 23.5 19.2 28.8



Abundance Ion 73.10 (72.80 to 73.80): VU034980.D (-497) (-)

Ion 43.05 (42.75 to 43.75): VU034980.D (-497) (-)

Ion 57.10 (56.80 to 57.80): VU034980.D (-497) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.183 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

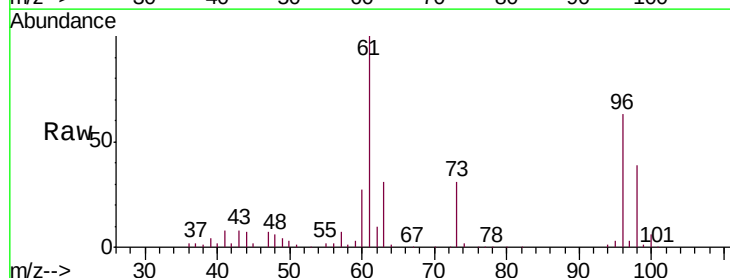
Tgt Ion: 96 Resp: 64945

Ion Ratio Lower Upper

96 100

61 157.5 112.3 208.7

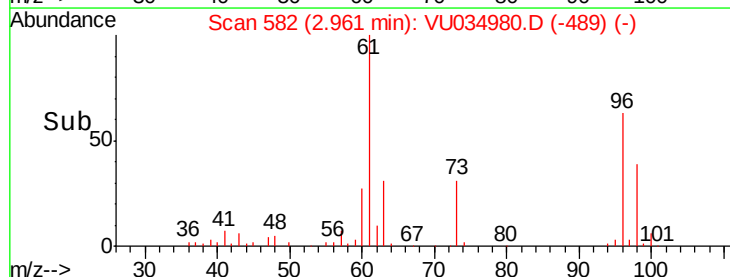
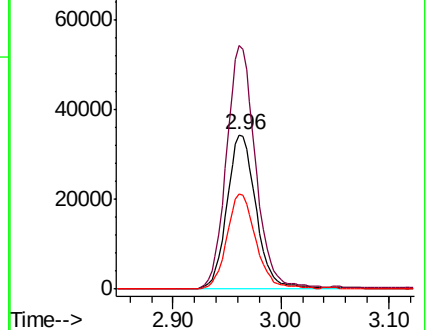
98 61.8 43.5 80.9

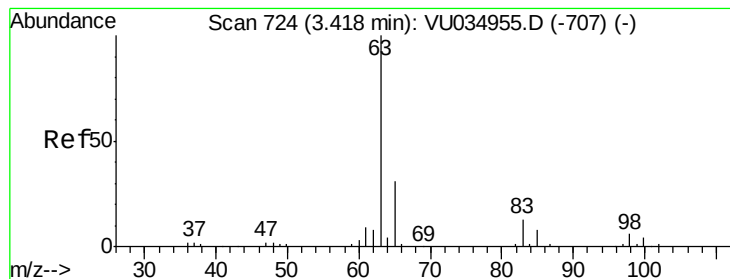


Abundance Ion 96.00 (95.70 to 96.70): VU034980.D (-489) (-)

Ion 61.05 (60.75 to 61.75): VU034980.D (-489) (-)

Ion 97.95 (97.65 to 98.65): VU034980.D (-489) (-)





#19

1,1-Dichloroethane

Concen: 5.210 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

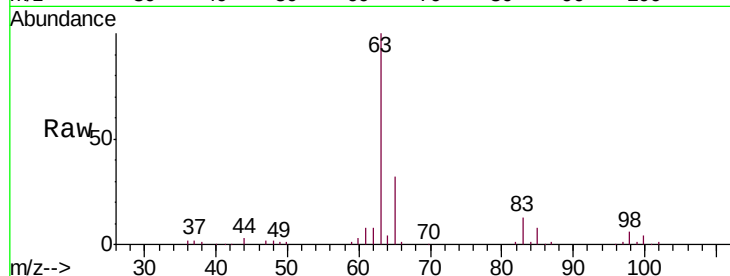
Tgt Ion: 63 Resp: 129741

Ion Ratio Lower Upper

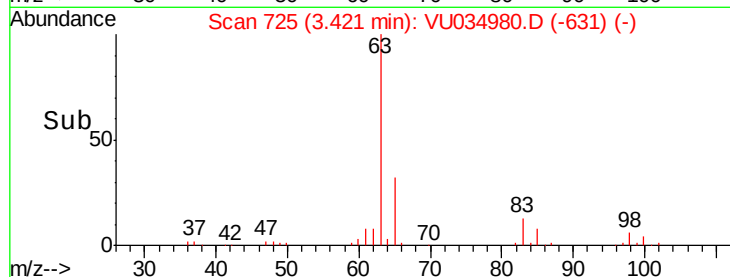
63 100

65 31.9 20.4 38.0

83 13.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU034980.D (-631) (-)



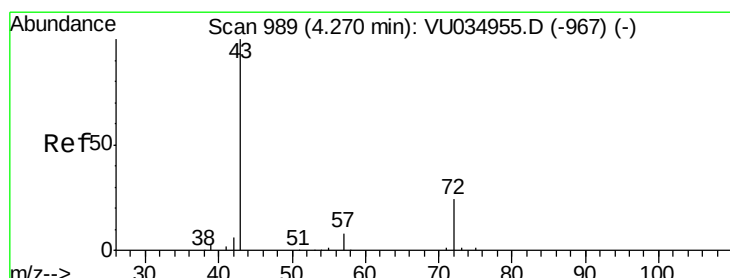
Ion 65.10 (64.80 to 65.80): VU034980.D (-631) (-)

Ion 83.05 (82.75 to 83.75): VU034980.D (-631) (-)

Time-->

3.42

3.30 3.40 3.50



#21

2-Butanone

Concen: 54.769 ug/L

RT: 4.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VU034980.D

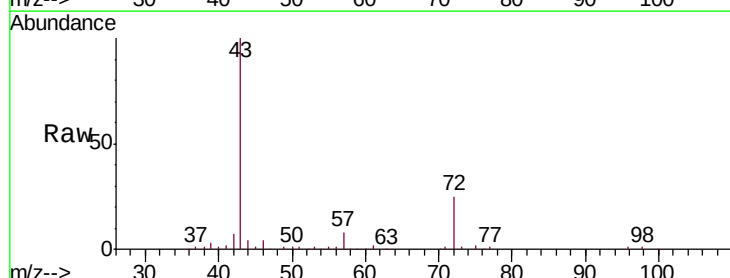
Acq: 08 Oct 2019 08:57

Tgt Ion: 43 Resp: 202583

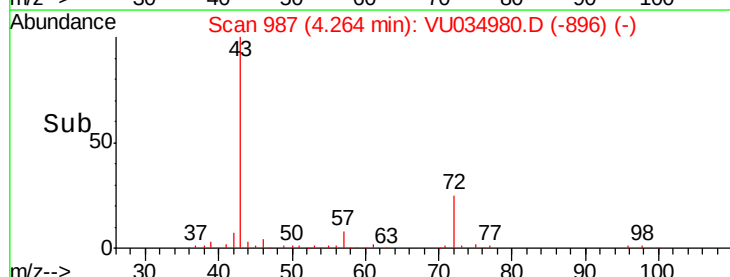
Ion Ratio Lower Upper

43 100

72 23.7 12.0 36.0



Abundance Ion 43.05 (42.75 to 43.75): VU034980.D (-896) (-)

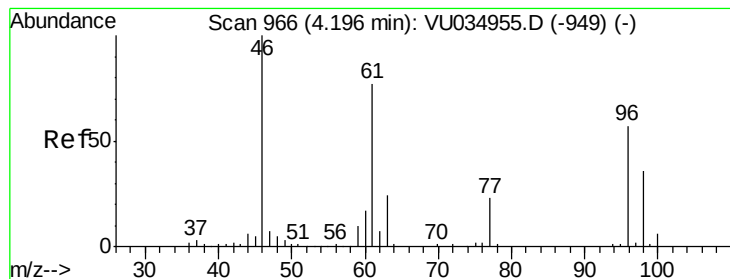


Ion 72.10 (71.80 to 72.80): VU034980.D (-896) (-)

Time-->

4.26

4.20 4.40

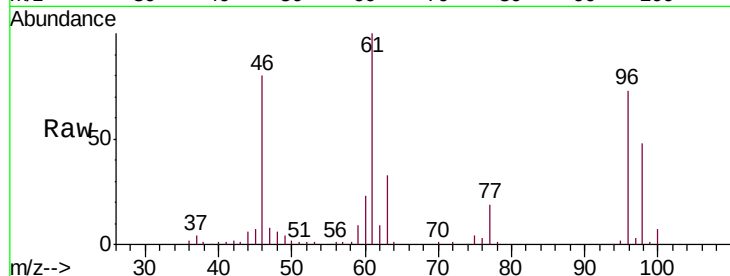


#22

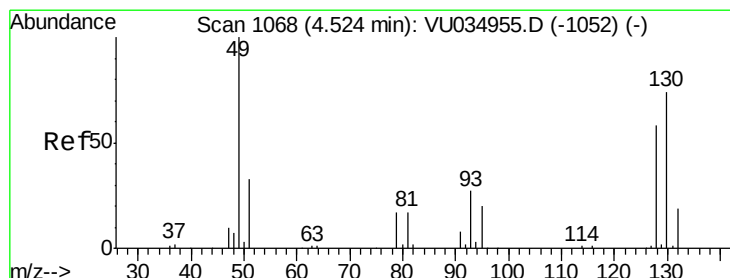
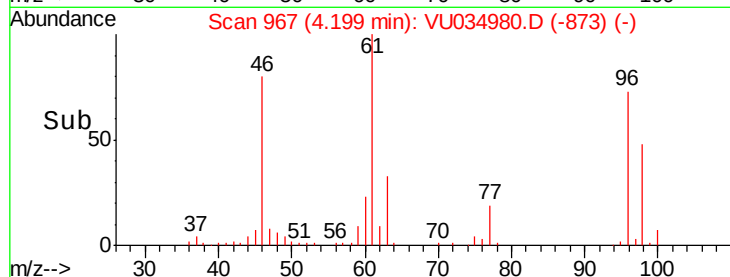
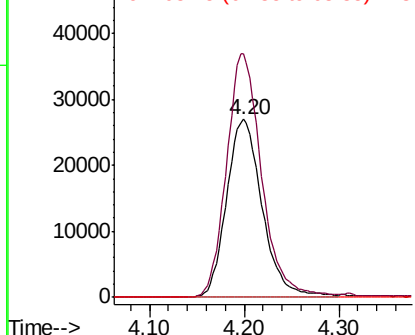
cis-1,2-Dichloroethene
 Concen: 5.065 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

Tgt Ion: 96 Resp: 70794
 Ion Ratio Lower Upper
 96 100
 61 137.0 96.4 179.0
 68 0.0 0.0 0.0



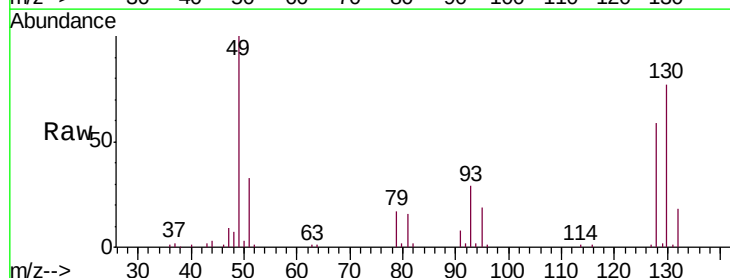
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



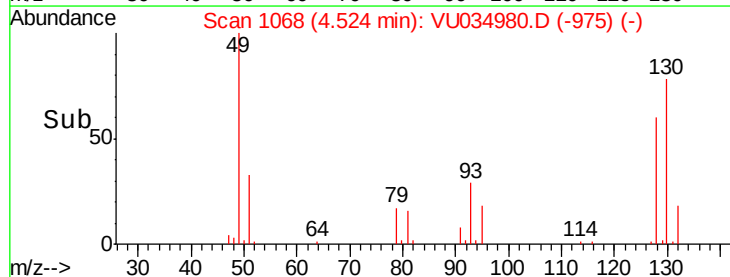
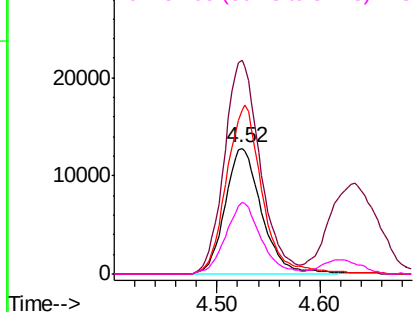
#23

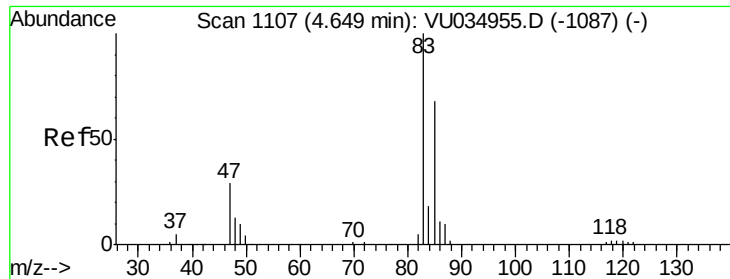
Bromochloromethane
 Concen: 5.383 ug/L
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Tgt Ion: 128 Resp: 31534
 Ion Ratio Lower Upper
 128 100
 49 169.9 116.0 215.4
 130 130.8 86.4 160.4
 51 56.6 41.6 62.4



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

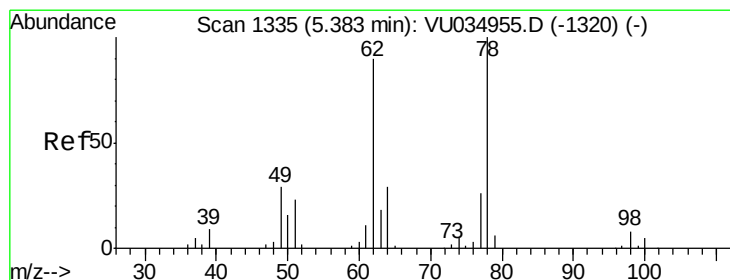
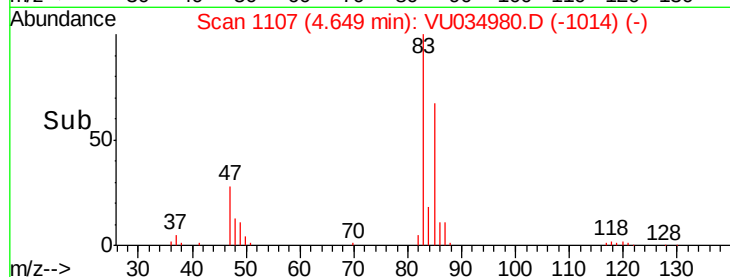
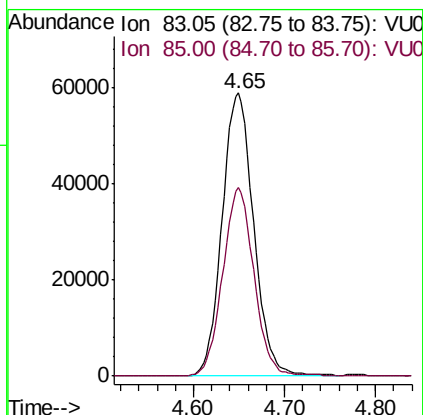
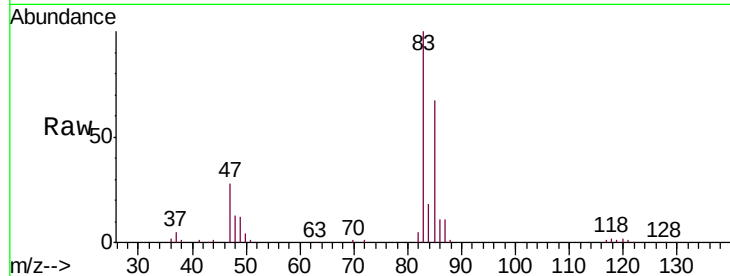




#25
Chloroform
Concen: 5.072 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034980.D
Acq: 08 Oct 2019 08:57

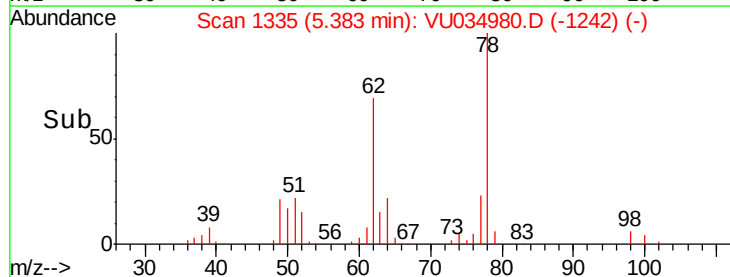
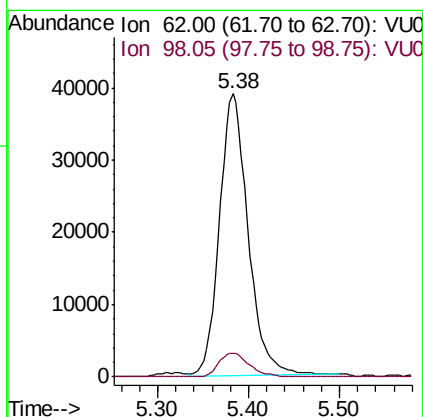
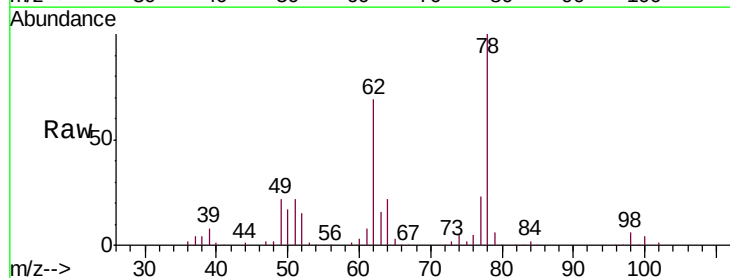
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

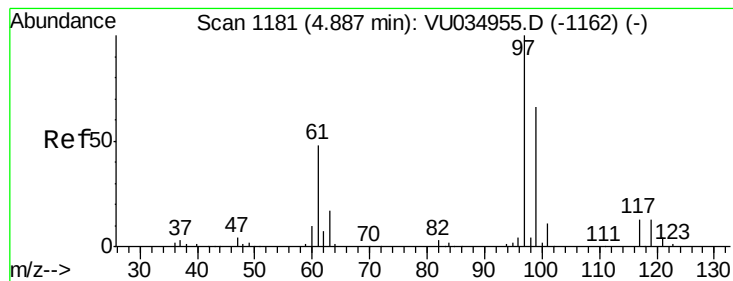
Tgt Ion: 83 Resp: 141928
Ion Ratio Lower Upper
83 100
85 66.6 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.227 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034980.D
Acq: 08 Oct 2019 08:57

Tgt Ion: 62 Resp: 85419
Ion Ratio Lower Upper
62 100
98 8.4 6.8 10.2





#29

1,1,1-Trichloroethane

Concen: 5.001 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

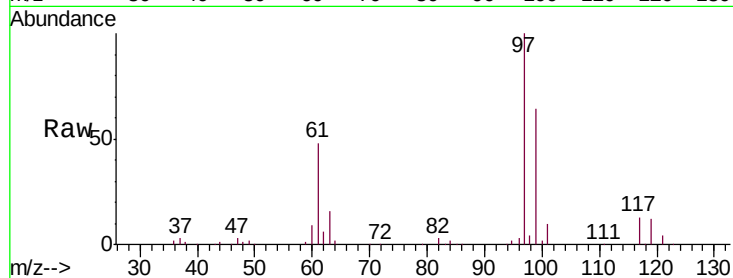
Tgt Ion: 97 Resp: 103668

Ion Ratio Lower Upper

97 100

99 65.5 52.3 78.5

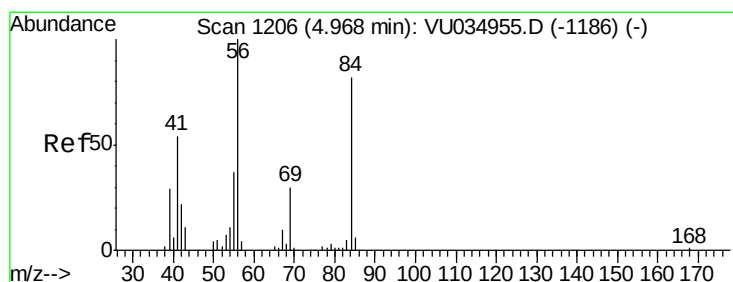
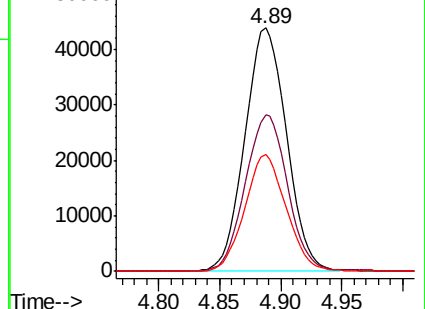
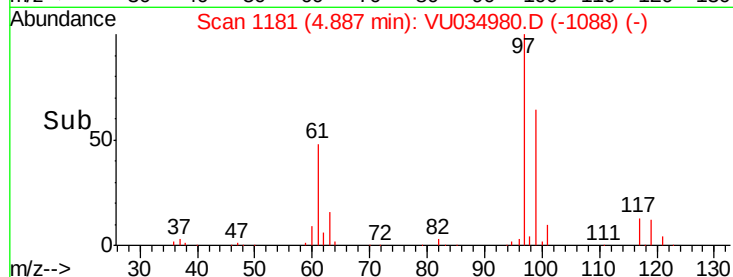
61 47.6 39.0 58.4



Abundance Ion 96.95 (96.65 to 97.65): VU034980.D (-1088) (-)

Ion 99.05 (98.75 to 99.75): VU034980.D (-1088) (-)

Ion 61.05 (60.75 to 61.75): VU034980.D (-1088) (-)



#30

Cyclohexane

Concen: 4.710 ug/L

RT: 4.96 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

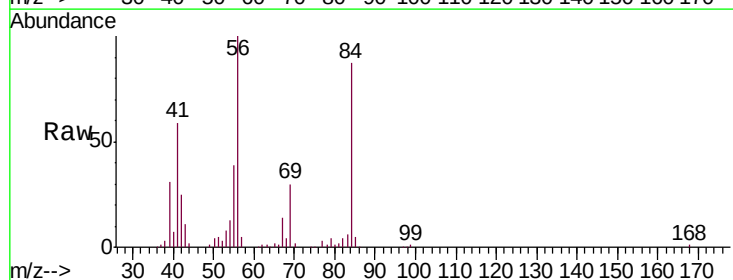
Tgt Ion: 56 Resp: 107343

Ion Ratio Lower Upper

56 100

69 29.3 23.4 35.0

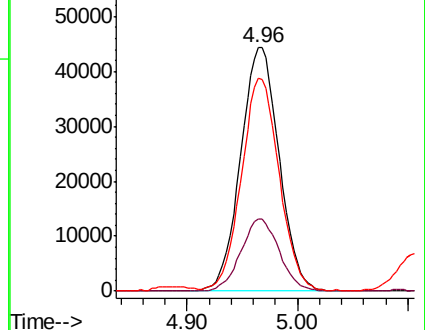
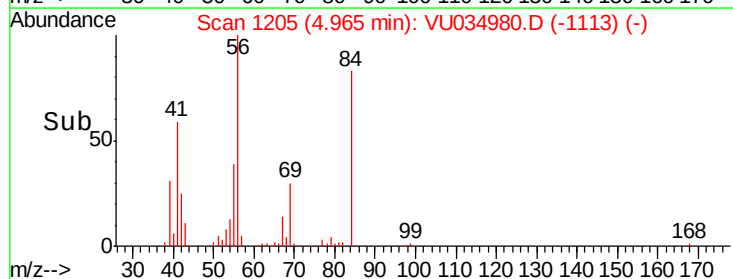
84 85.4 66.2 99.2

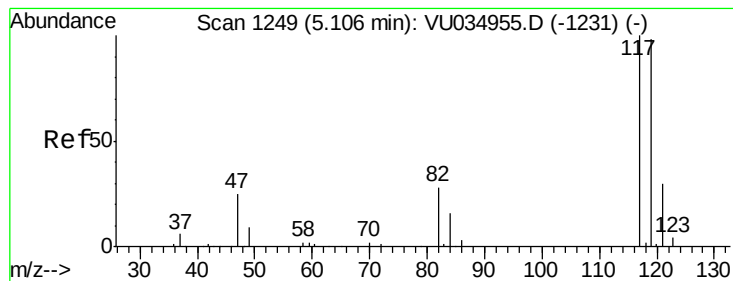


Abundance Ion 56.10 (55.80 to 56.80): VU034980.D (-1113) (-)

Ion 69.15 (68.85 to 69.85): VU034980.D (-1113) (-)

Ion 84.15 (83.85 to 84.85): VU034980.D (-1113) (-)





#31

Carbon tetrachloride

Concen: 5.113 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

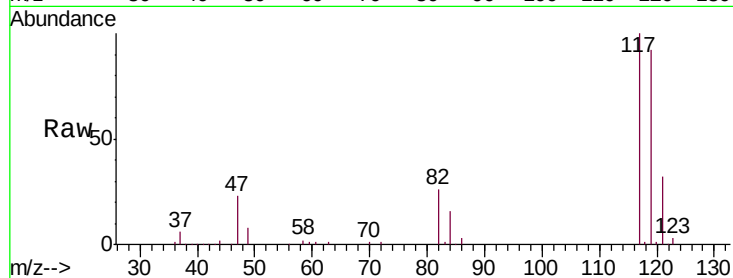
VSTD00530

Tgt Ion:117 Resp: 91890

Ion Ratio Lower Upper

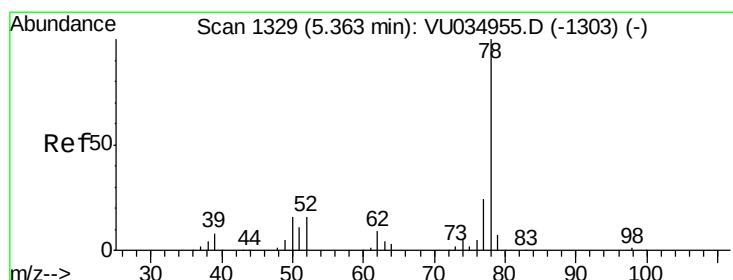
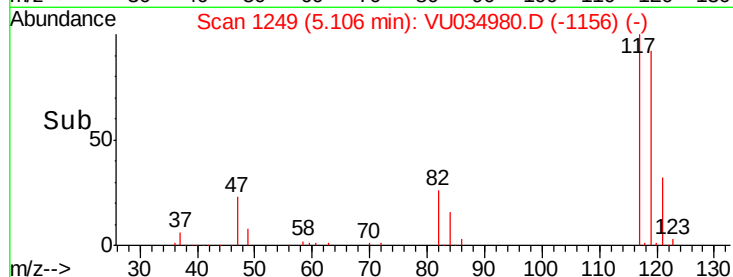
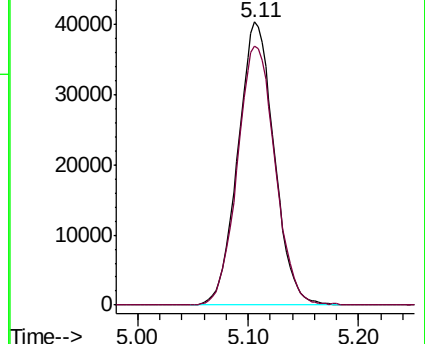
117 100

119 94.9 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.023 ug/L

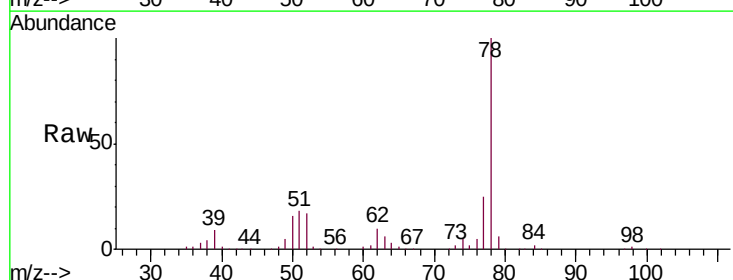
RT: 5.36 min Scan# 1329

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Tgt Ion: 78 Resp: 279267



Abundance Ion 78.10 (77.80 to 78.80): VU0

150000

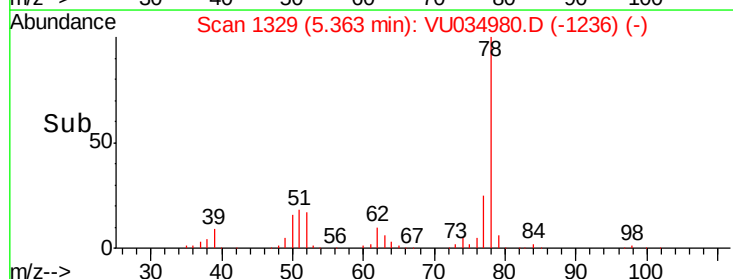
100000

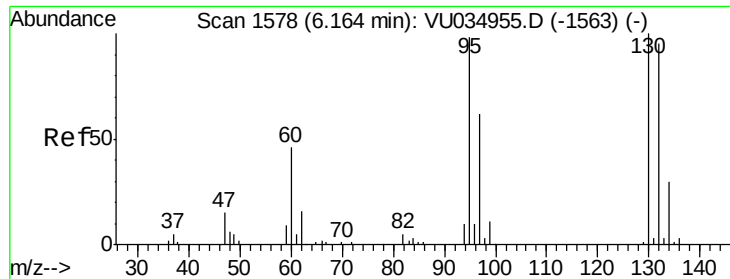
50000

0

5.36

Time-->





#34

Trichloroethene

Concen: 4.980 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

Tgt Ion: 95 Resp: 71400

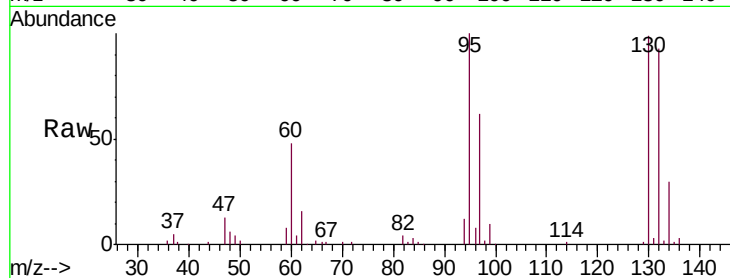
Ion Ratio Lower Upper

95 100

97 61.9 42.5 78.9

132 93.0 65.8 122.2

130 99.2 65.0 120.8

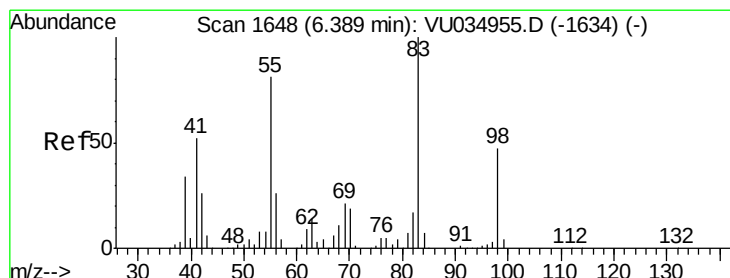
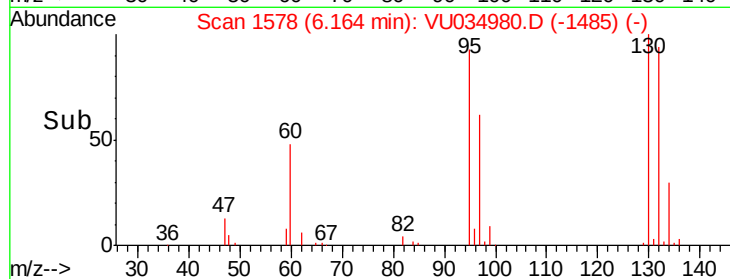
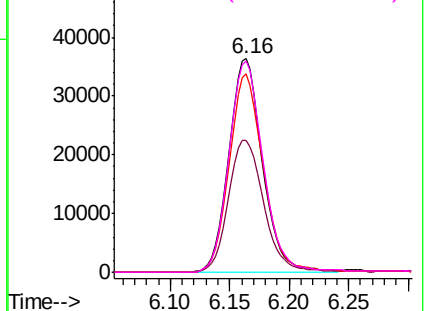


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.831 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

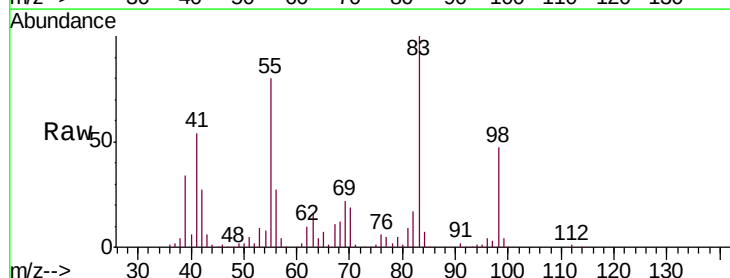
Tgt Ion: 83 Resp: 112180

Ion Ratio Lower Upper

83 100

55 81.1 62.4 93.6

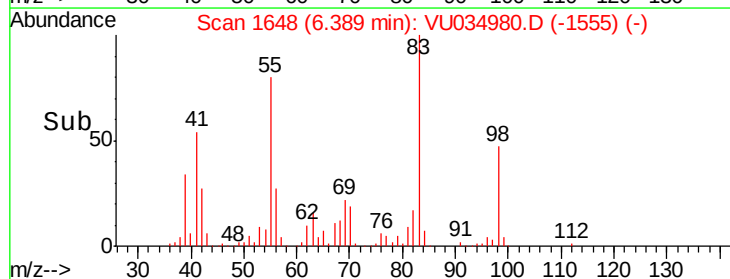
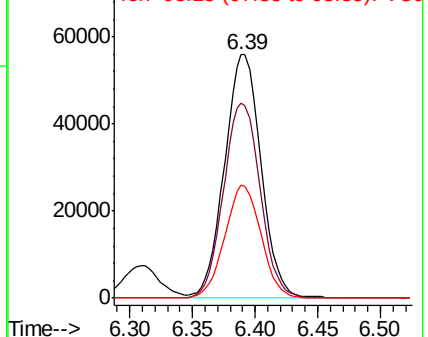
98 46.4 35.5 53.3

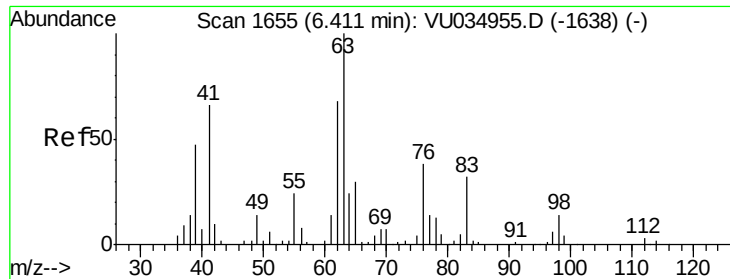


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

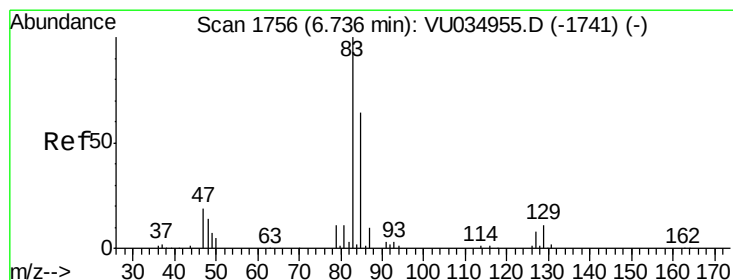
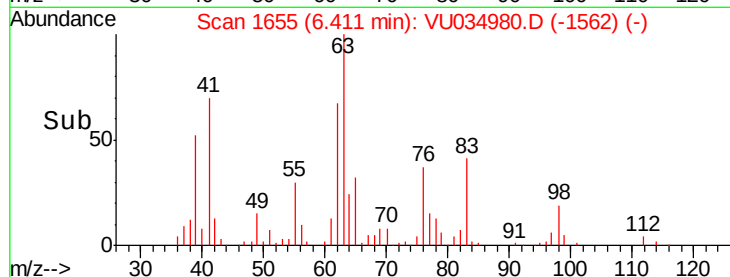
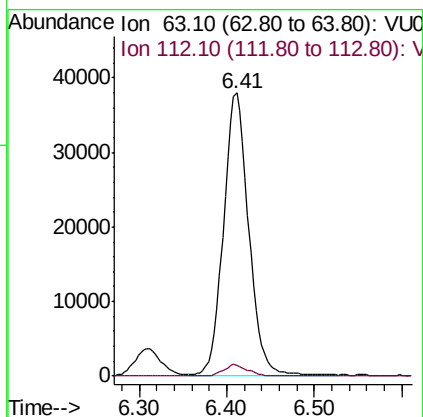
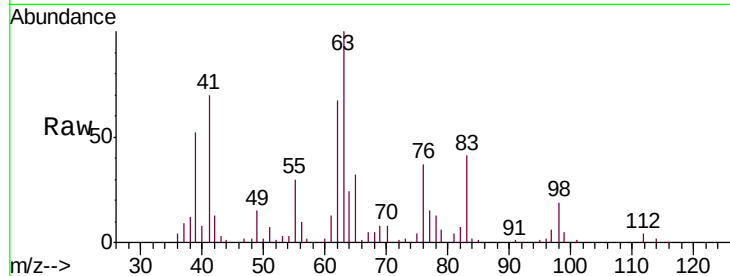




#37
 1,2-Dichloropropane
 Concen: 5.035 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

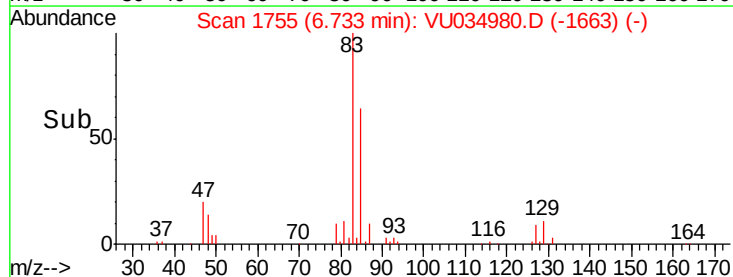
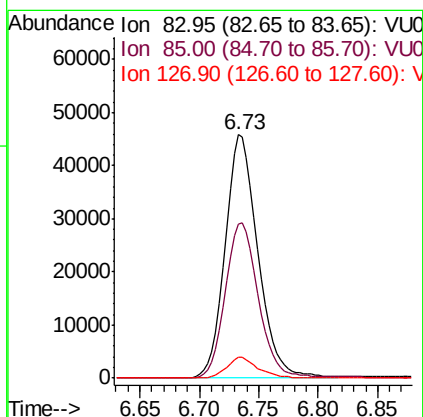
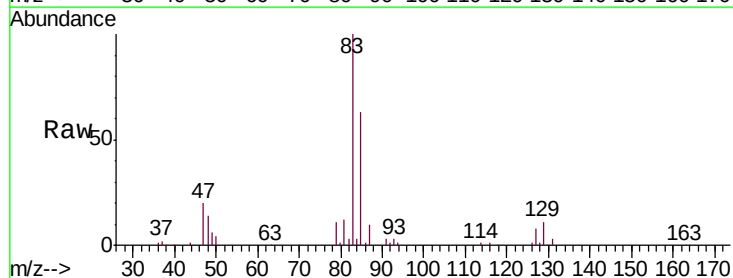
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

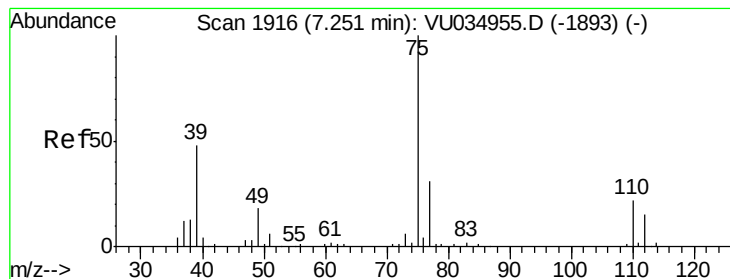
Tgt Ion: 63 Resp: 75508
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.980 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Tgt Ion: 83 Resp: 87549
 Ion Ratio Lower Upper
 83 100
 85 63.2 45.3 84.1
 127 8.5 6.6 10.0



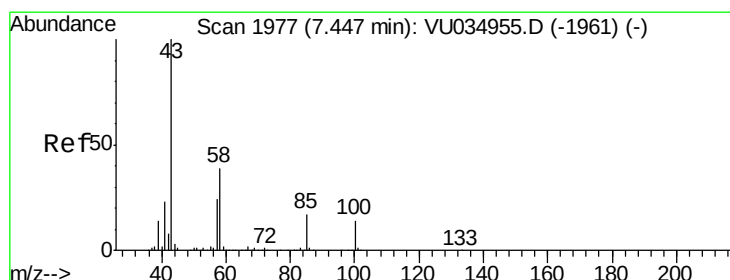
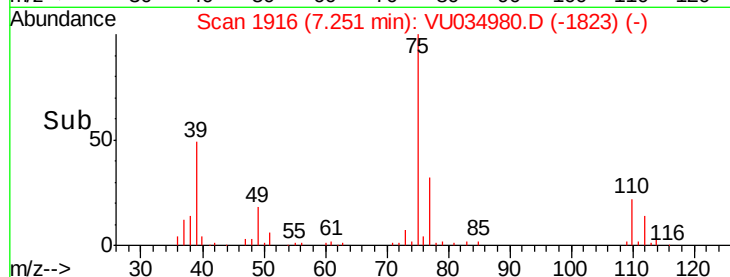
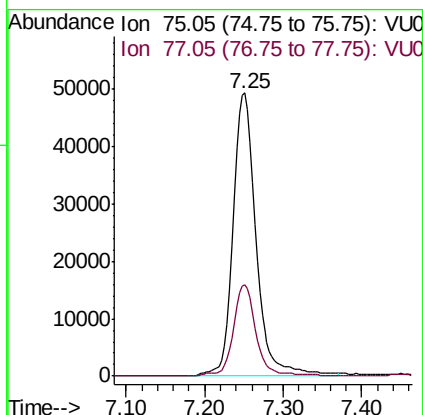
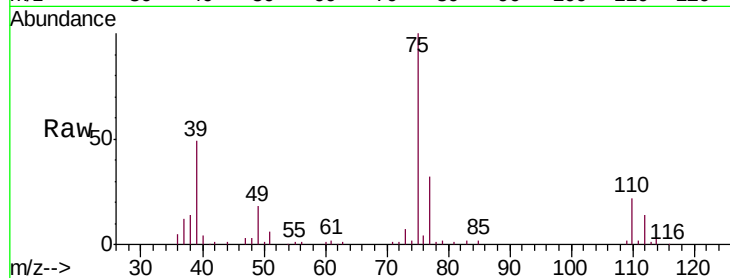


#39

cis-1,3-Dichloropropene
 Concen: 4.950 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

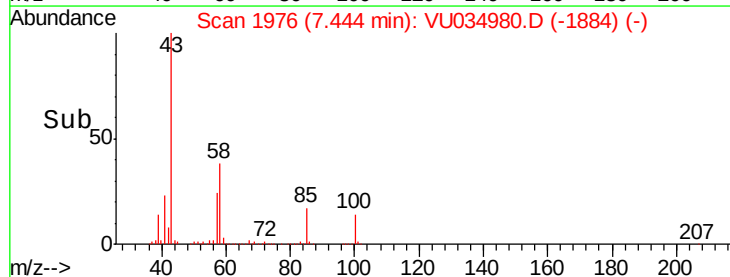
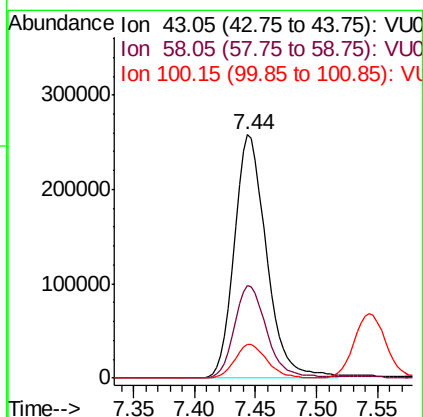
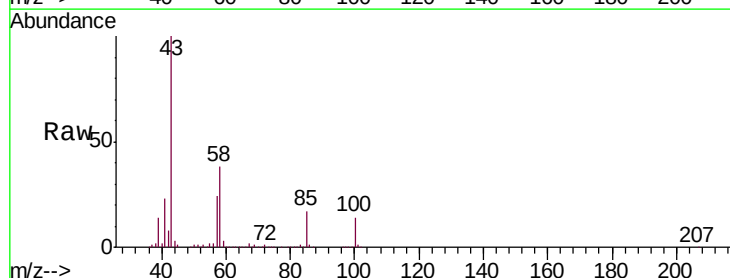
Tgt Ion: 75 Resp: 100568
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.3 41.5

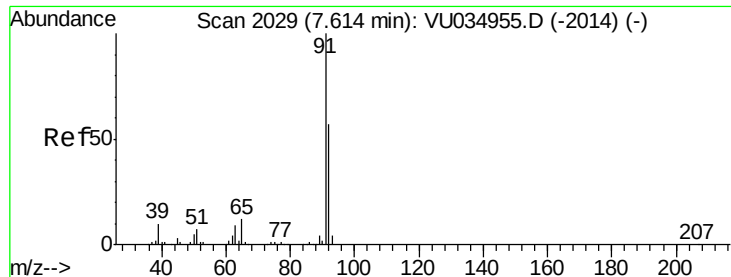


#40

4-Methyl-2-pentanone
 Concen: 50.022 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Tgt Ion: 43 Resp: 472125
 Ion Ratio Lower Upper
 43 100
 58 38.6 31.1 46.7
 100 13.8 11.0 16.4





#42

Toluene

Concen: 5.181 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

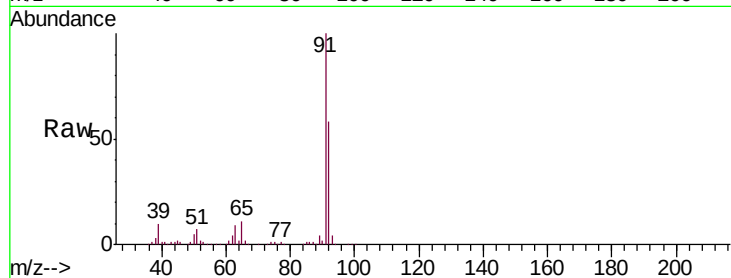
VSTD00530

Tgt Ion: 91 Resp: 300667

Ion Ratio Lower Upper

91 100

92 58.1 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU034955.D (-2014) (-)

Ion 92.15 (91.85 to 92.85): VU034955.D (-2014) (-)

7.61

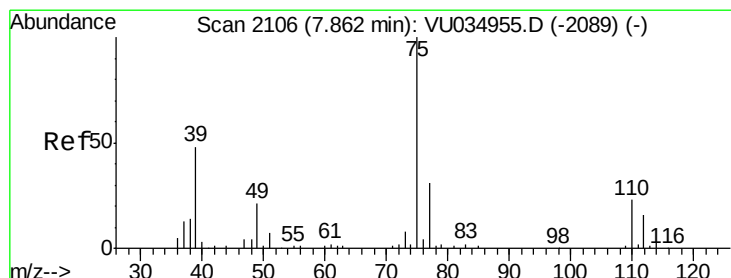
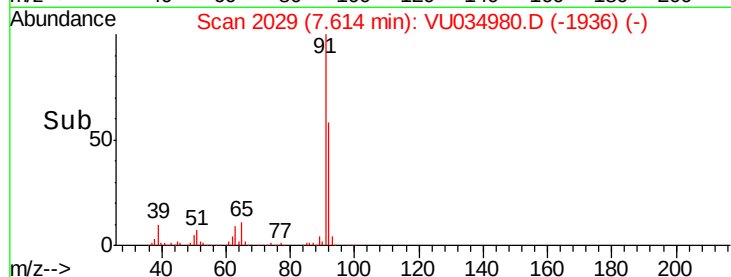
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 5.059 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034980.D

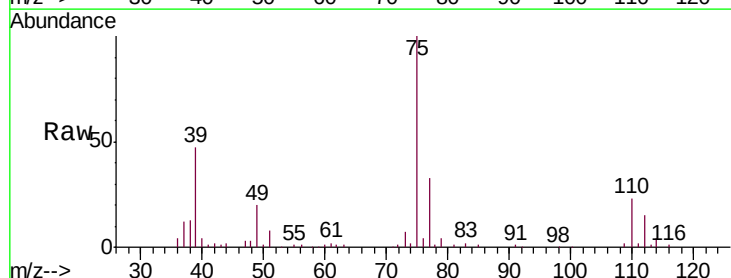
Acq: 08 Oct 2019 08:57

Tgt Ion: 75 Resp: 79600

Ion Ratio Lower Upper

75 100

77 32.6 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU034955.D (-2089) (-)

Ion 77.05 (76.75 to 77.75): VU034955.D (-2089) (-)

7.86

40000

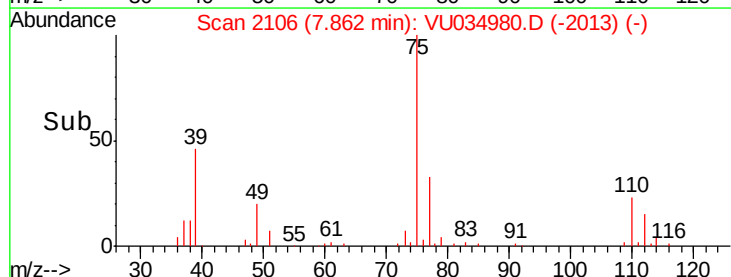
30000

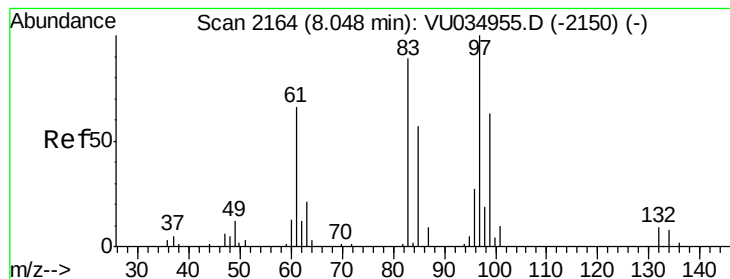
20000

10000

0

Time--> 7.80 7.90 8.00





#45

1,1,2-Trichloroethane

Concen: 5.193 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

Tgt Ion: 97 Resp: 51703

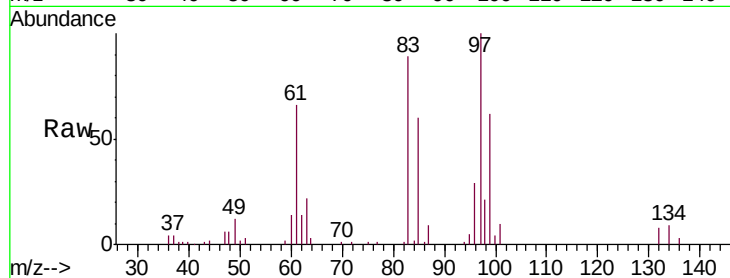
Ion Ratio Lower Upper

97 100

99 61.8 42.8 79.6

83 89.3 62.2 115.6

85 60.2 39.1 72.5



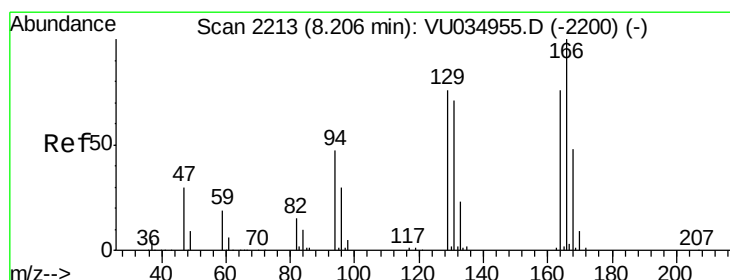
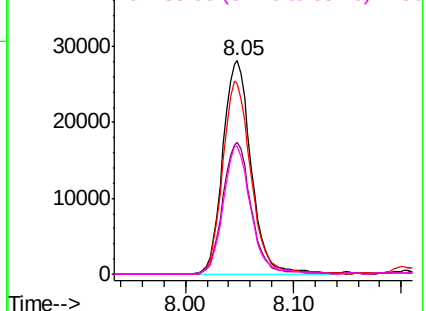
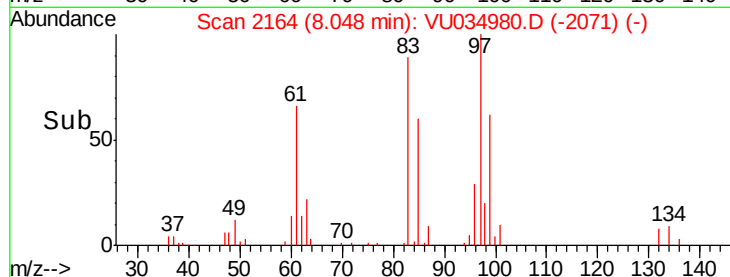
Abundance

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: 5.156 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Tgt Ion: 164 Resp: 59833

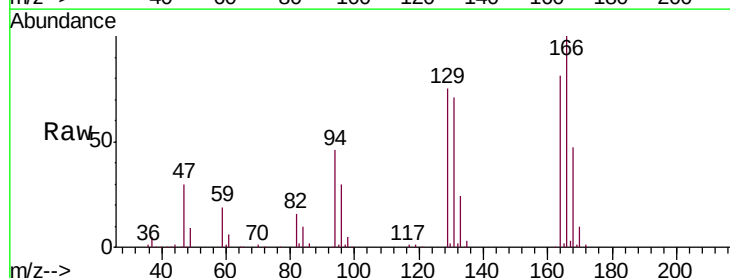
Ion Ratio Lower Upper

164 100

129 92.3 66.5 123.5

131 88.2 63.3 117.7

166 123.5 91.6 170.2



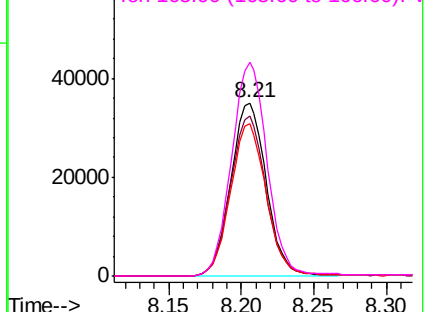
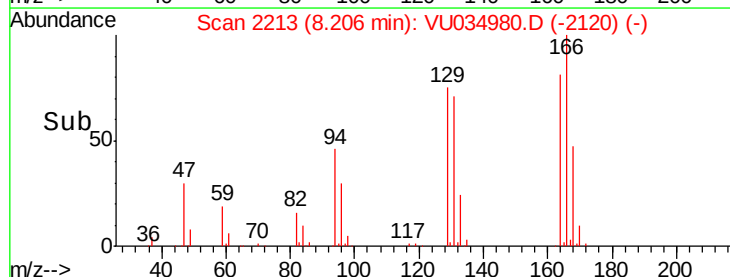
Abundance

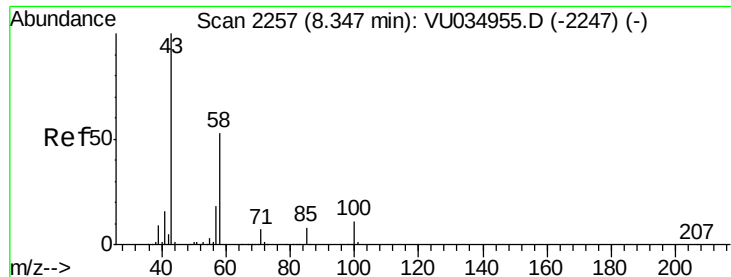
Ion 163.90 (163.60 to 164.60): V

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

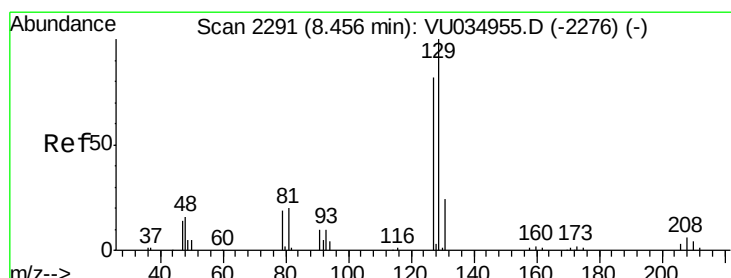
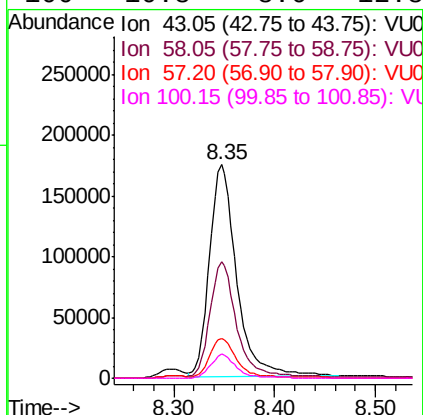
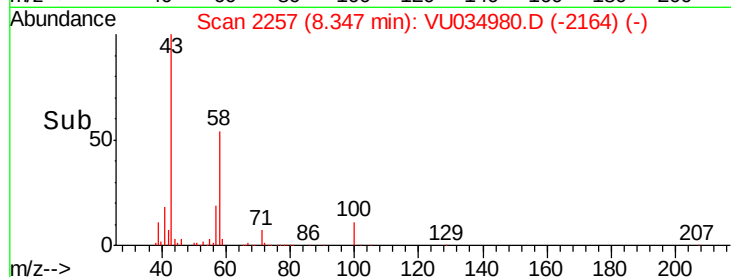
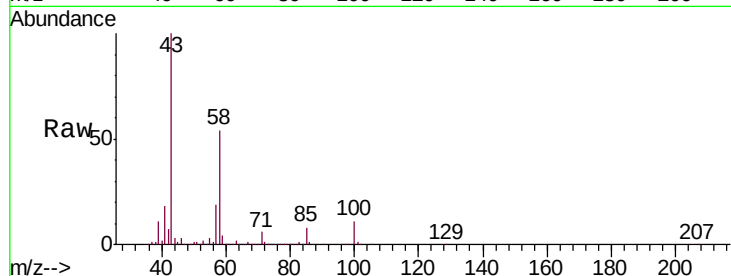




#48
2-Hexanone
Concen: 50.649 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU034980.D
Acq: 08 Oct 2019 08:57

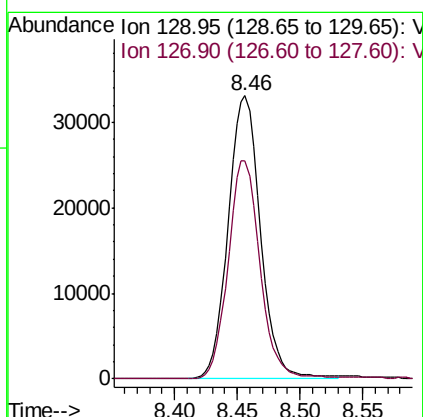
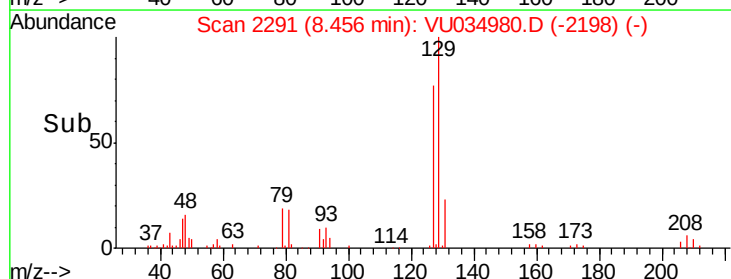
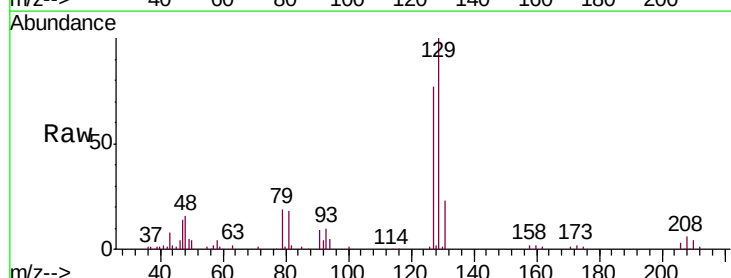
Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

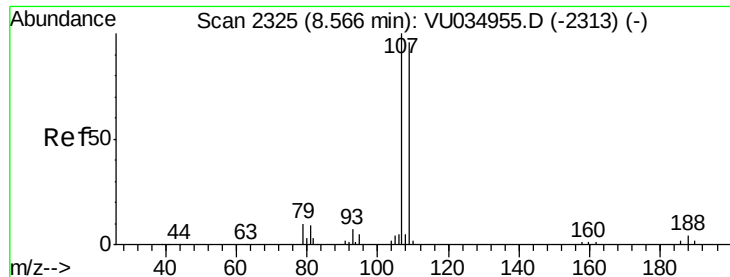
Tgt Ion: 43 Resp: 327770
Ion Ratio Lower Upper
43 100
58 54.4 43.3 64.9
57 17.7 14.5 21.7
100 10.8 8.6 12.8



#49
Dibromochloromethane
Concen: 5.155 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034980.D
Acq: 08 Oct 2019 08:57

Tgt Ion: 129 Resp: 59333
Ion Ratio Lower Upper
129 100
127 77.0 51.2 95.0

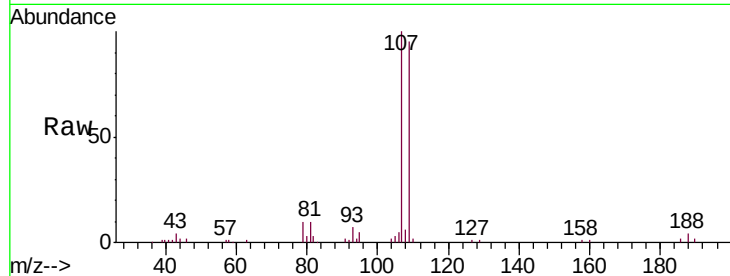




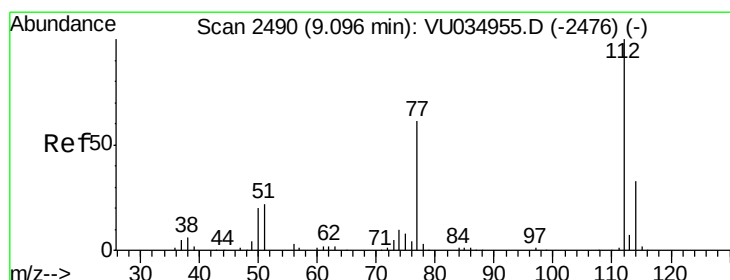
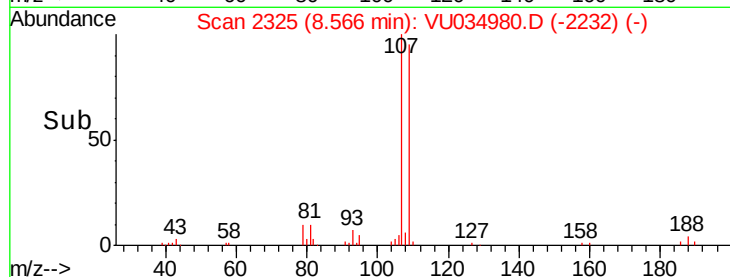
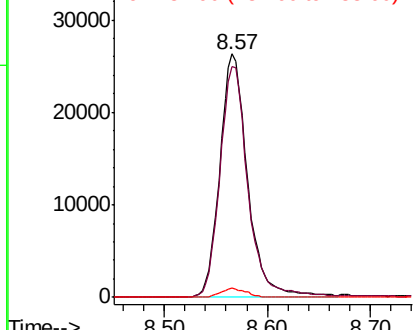
#50
1,2-Dibromoethane
Concen: 5.195 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU034980.D
Acq: 08 Oct 2019 08:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD00530

Tgt Ion:107 Resp: 49435
Ion Ratio Lower Upper
107 100
109 94.6 64.0 119.0
188 3.7 3.5 5.3

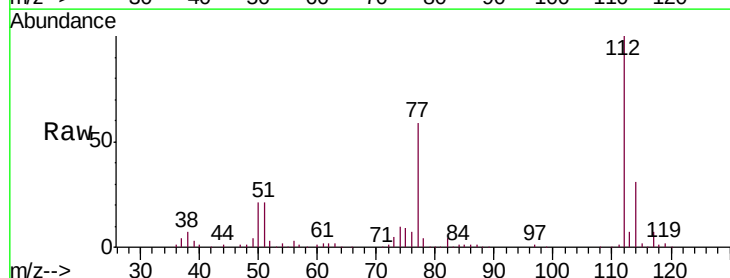


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

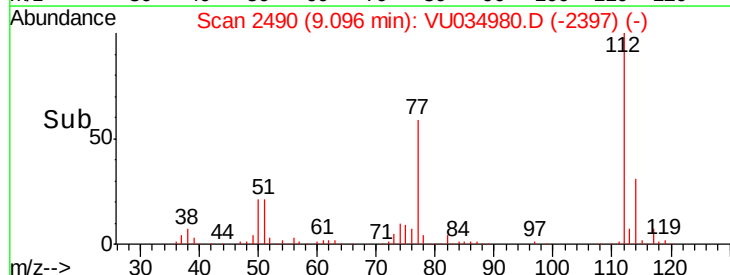
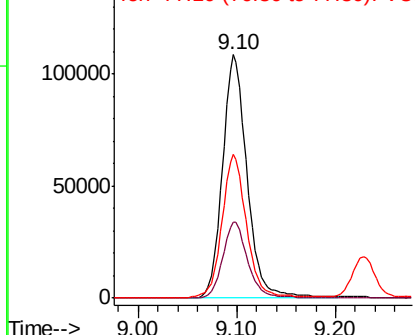


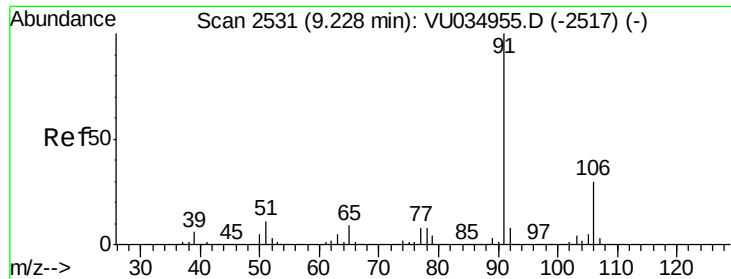
#51
Chlorobenzene
Concen: 5.068 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034980.D
Acq: 08 Oct 2019 08:57

Tgt Ion:112 Resp: 190586
Ion Ratio Lower Upper
112 100
114 31.3 22.2 41.2
77 59.2 47.4 71.2



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: 5.078 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

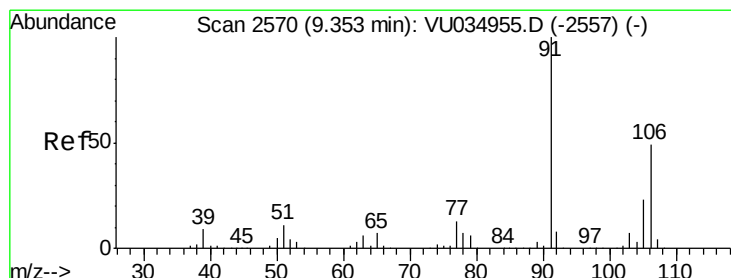
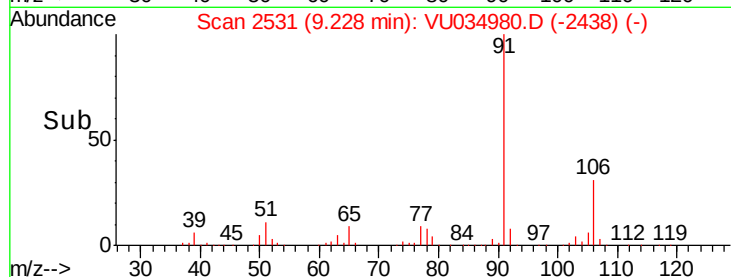
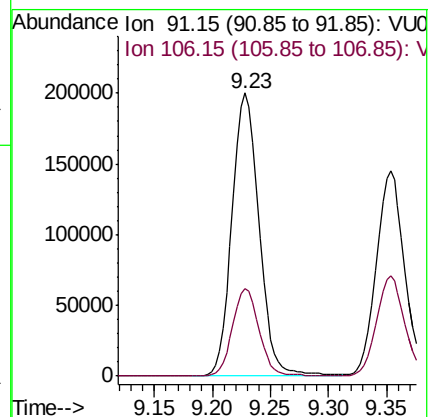
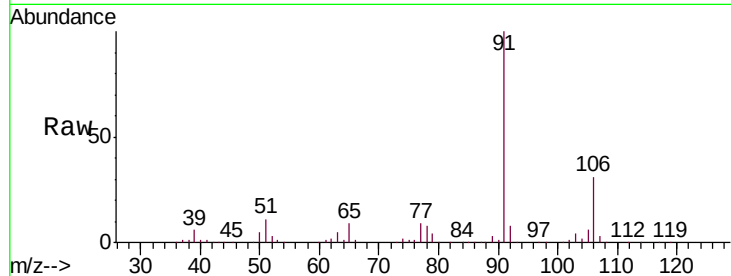
VSTD00530

Tgt Ion: 91 Resp: 325465

Ion Ratio Lower Upper

91 100

106 31.1 21.1 39.3



#53

m,p-Xylene

Concen: 5.117 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034980.D

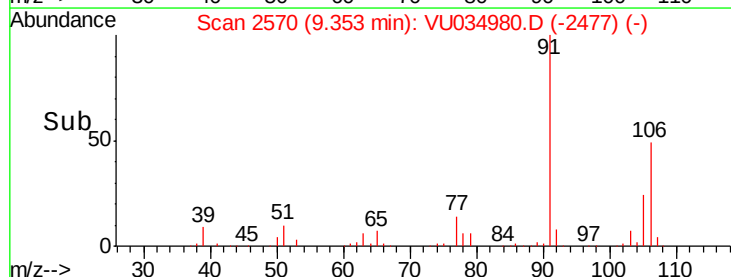
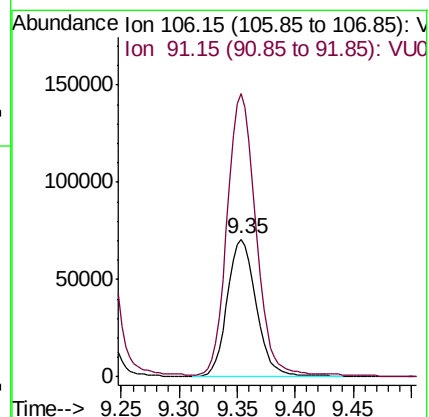
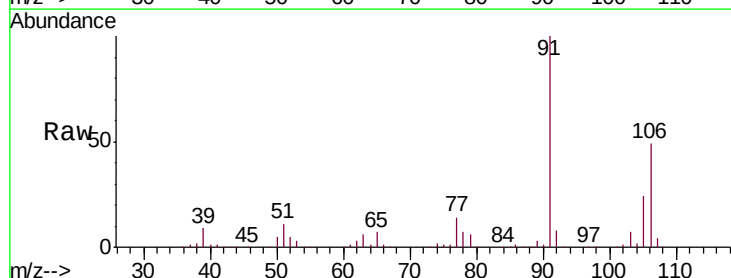
Acq: 08 Oct 2019 08:57

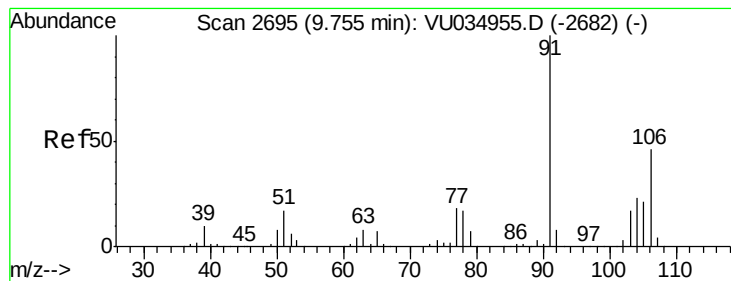
Tgt Ion: 106 Resp: 121141

Ion Ratio Lower Upper

106 100

91 205.7 143.1 265.9





#54

o-Xylene

Concen: 5.115 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

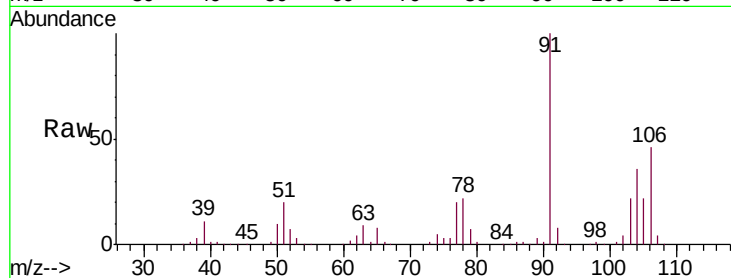
VSTD00530

Tgt Ion:106 Resp: 118442

Ion Ratio Lower Upper

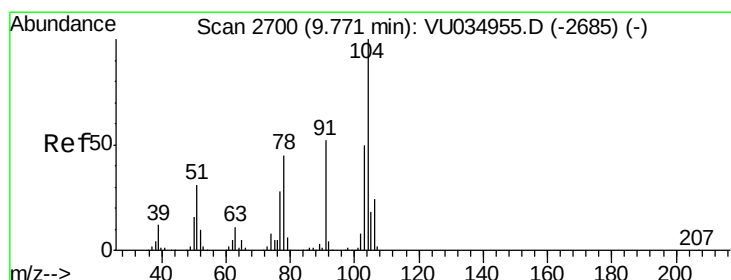
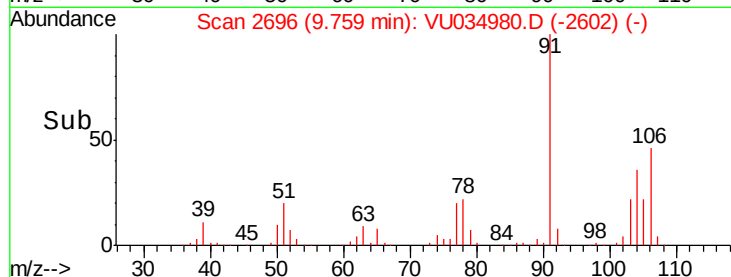
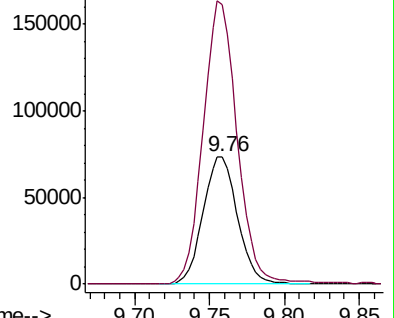
106 100

91 219.4 151.6 281.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.294 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU034980.D

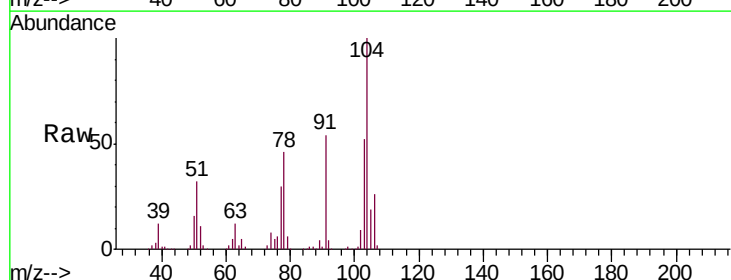
Acq: 08 Oct 2019 08:57

Tgt Ion:104 Resp: 198482

Ion Ratio Lower Upper

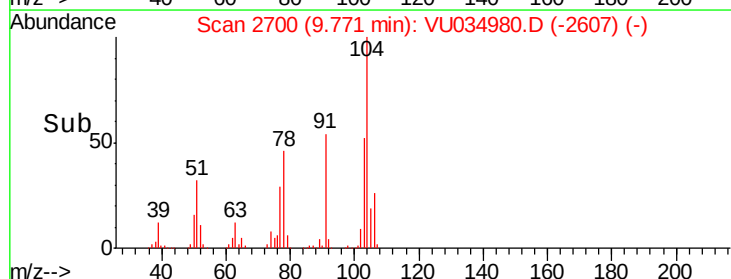
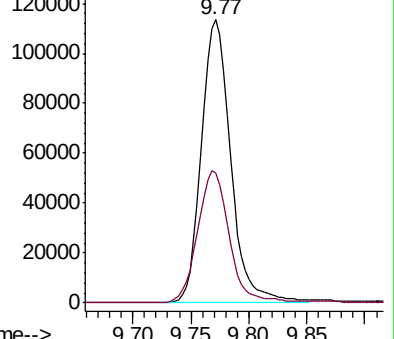
104 100

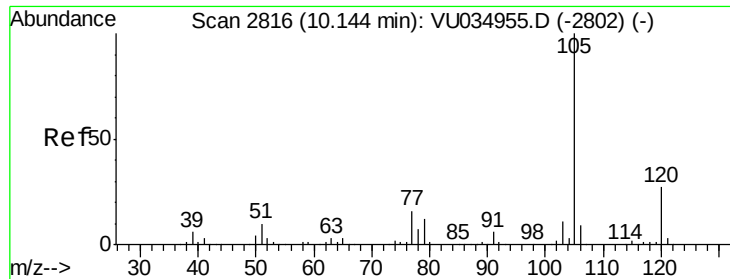
78 45.7 32.7 60.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.150 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

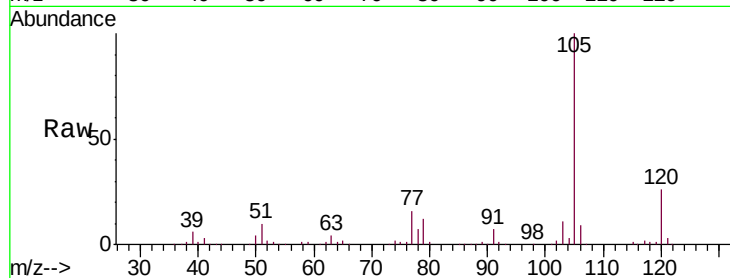
Tgt Ion: 105 Resp: 317706

Ion Ratio Lower Upper

105 100

120 25.5 20.8 31.2

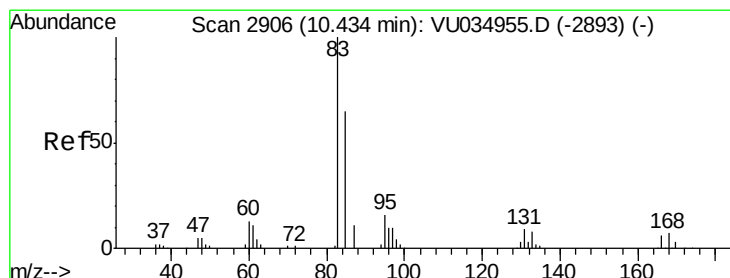
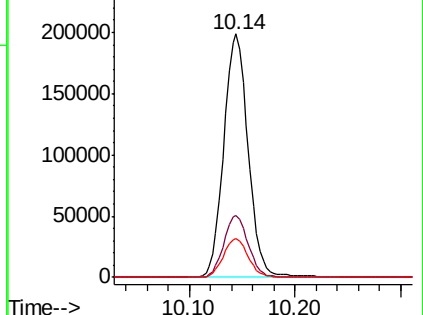
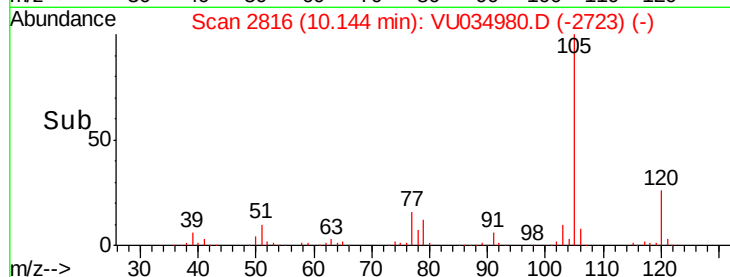
77 16.3 13.0 19.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.152 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

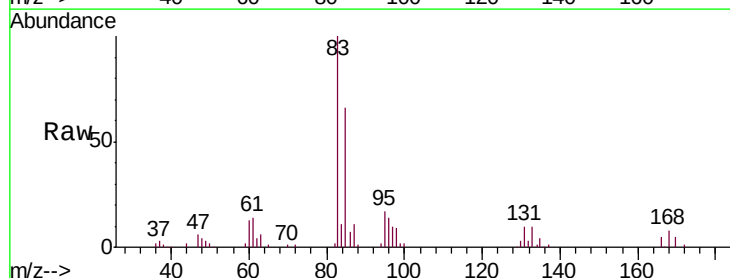
Tgt Ion: 83 Resp: 69770

Ion Ratio Lower Upper

83 100

85 65.7 45.0 83.6

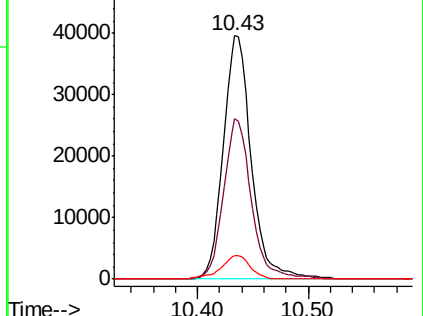
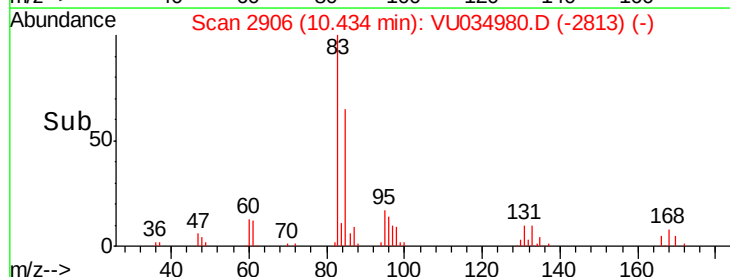
131 9.7 7.7 11.5

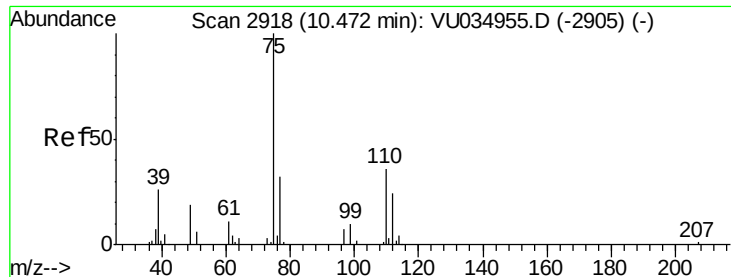


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.149 ug/L

RT: 10.47 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

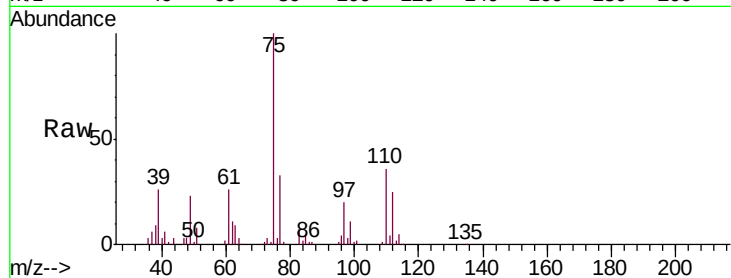
VSTD00530

Tgt Ion: 75 Resp: 49979

Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.6

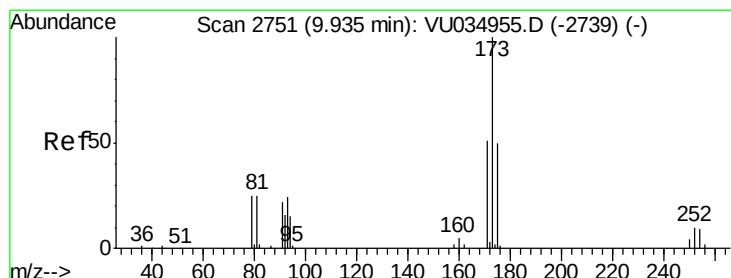
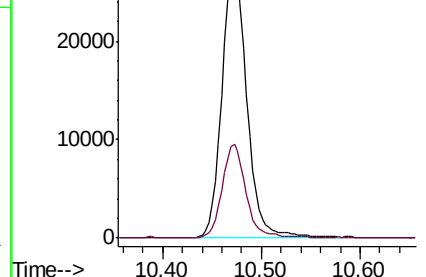
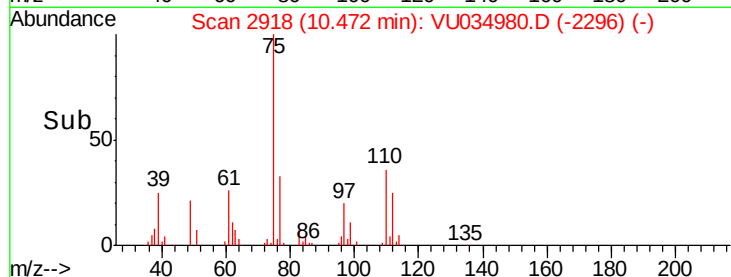


Abundance Ion 75.00 (74.70 to 75.70): VU034955.D (-2905) (-)

Ion 77.00 (76.70 to 77.70): VU034955.D (-2905) (-)

10.47

Time-->



#61

Bromoform

Concen: 4.893 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

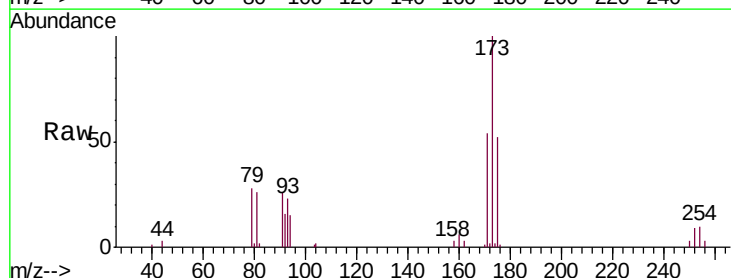
Tgt Ion: 173 Resp: 31495

Ion Ratio Lower Upper

173 100

175 49.1 39.2 58.8

254 9.1 6.9 10.3



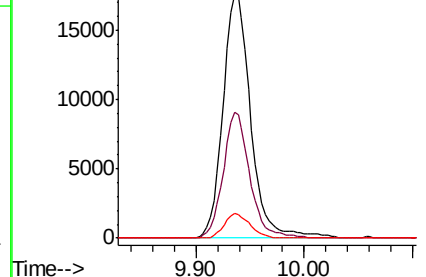
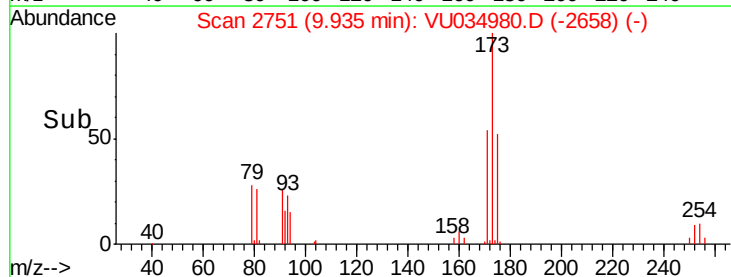
Abundance Ion 172.90 (172.60 to 173.60): VU034955.D (-2739) (-)

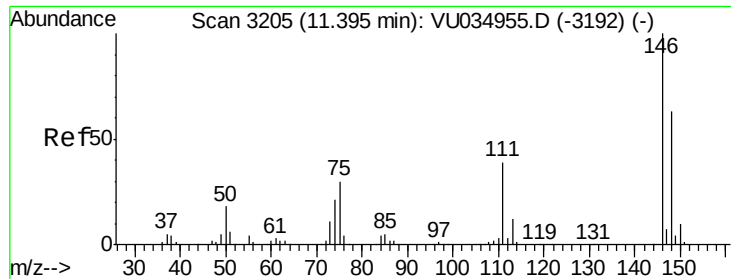
Ion 174.90 (174.60 to 175.60): VU034955.D (-2739) (-)

Ion 253.75 (253.45 to 254.45): VU034955.D (-2739) (-)

9.94

Time-->





#62

1,3-Dichlorobenzene

Concen: 5.155 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

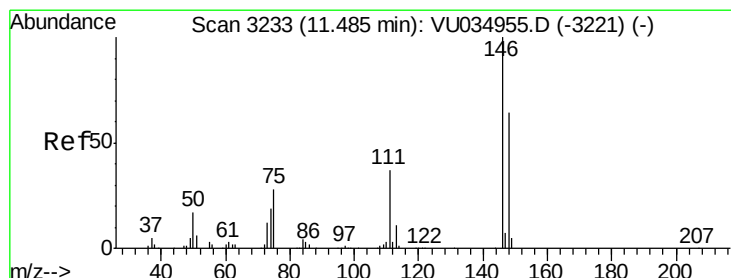
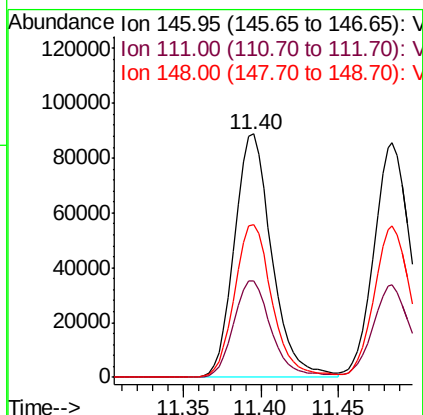
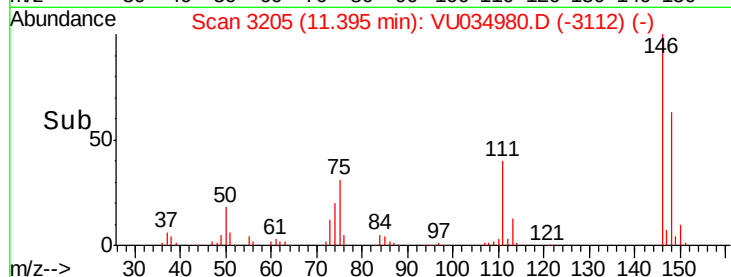
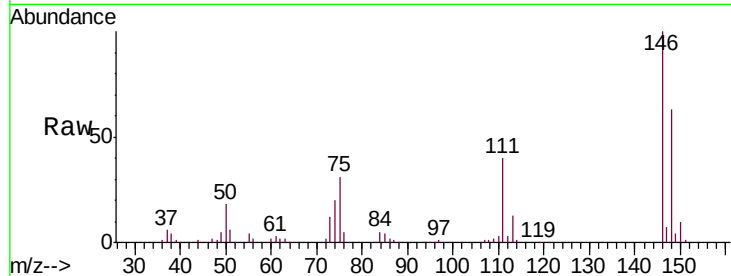
Tgt Ion:146 Resp: 149049

Ion Ratio Lower Upper

146 100

111 39.8 27.4 50.8

148 63.0 44.5 82.7



#63

1,4-Dichlorobenzene

Concen: 5.084 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

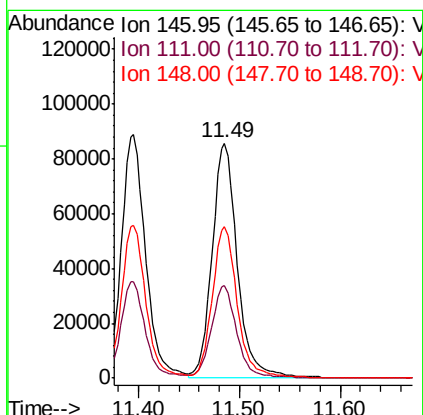
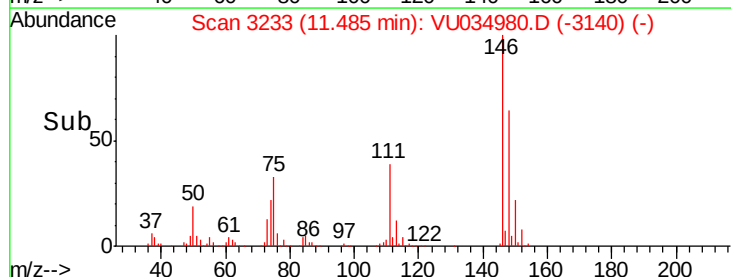
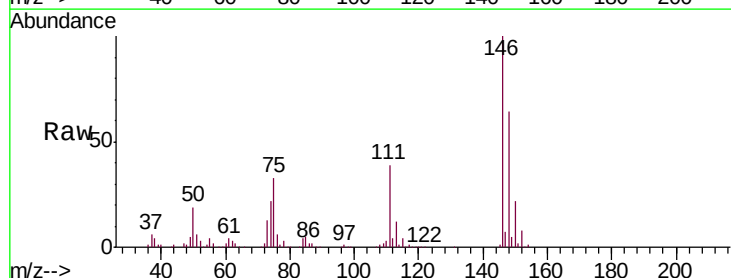
Tgt Ion:146 Resp: 148361

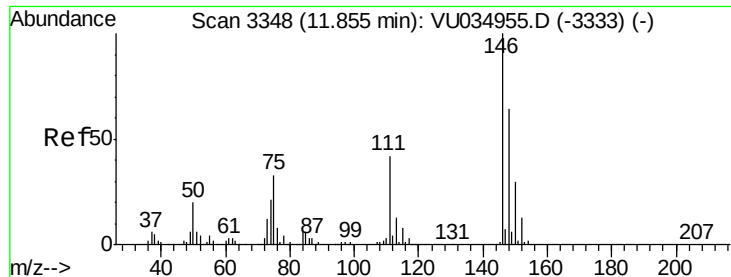
Ion Ratio Lower Upper

146 100

111 39.2 27.3 50.7

148 64.4 45.8 85.2





#65

1,2-Dichlorobenzene

Concen: 5.039 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

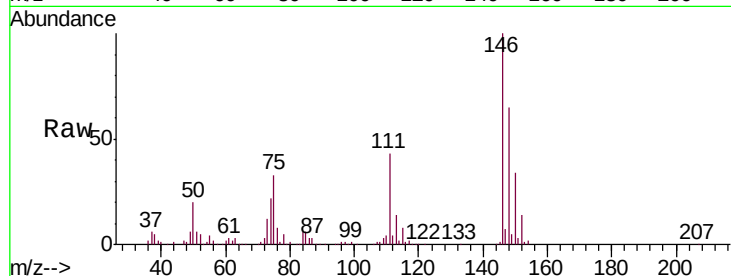
Tgt Ion:146 Resp: 140581

Ion Ratio Lower Upper

146 100

111 43.4 32.1 48.1

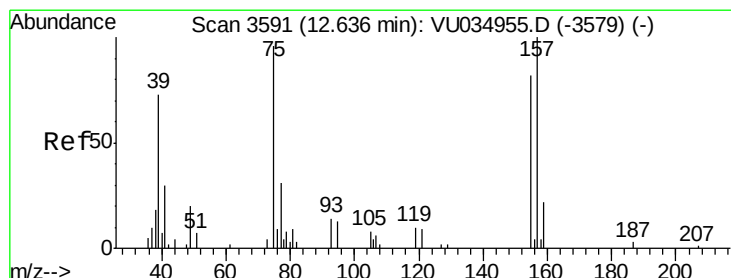
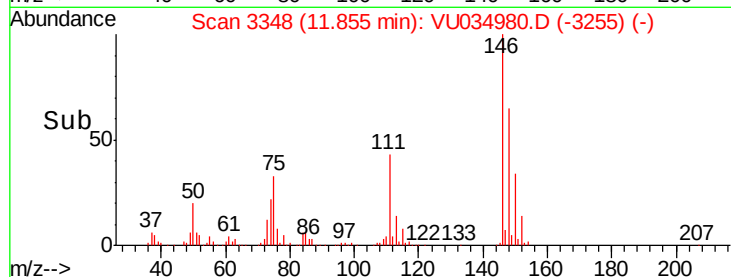
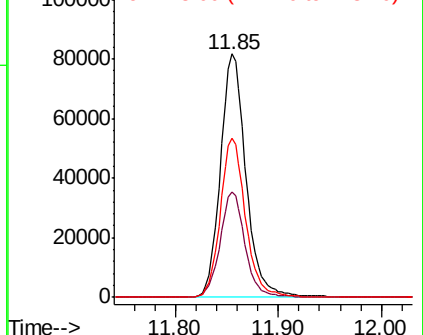
148 65.4 49.2 73.8



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.848 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

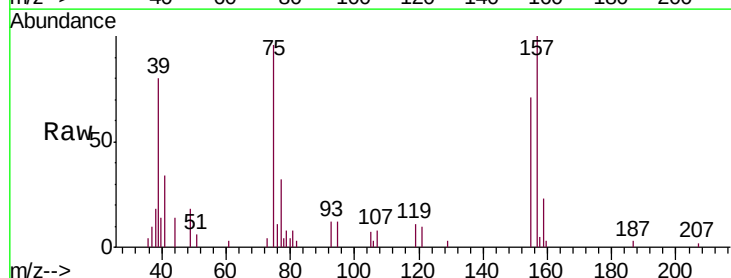
Tgt Ion: 75 Resp: 8595

Ion Ratio Lower Upper

75 100

155 73.5 59.7 89.5

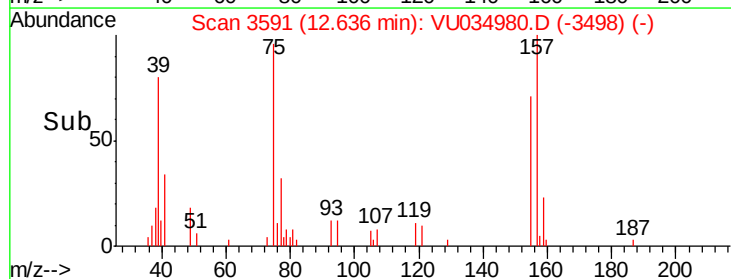
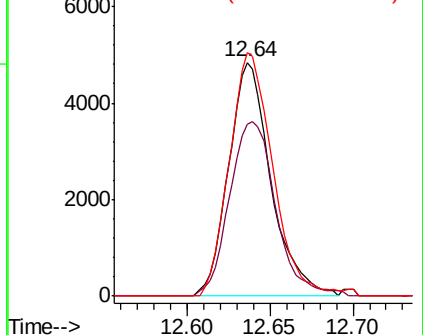
157 104.2 80.8 121.2

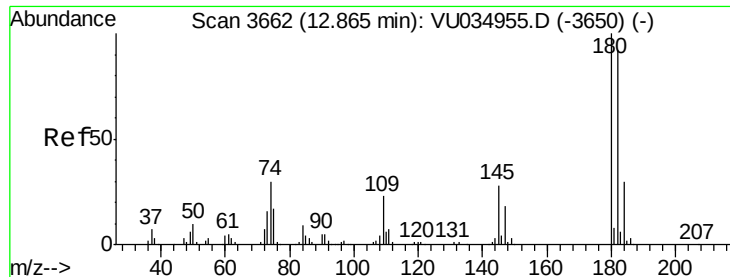


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

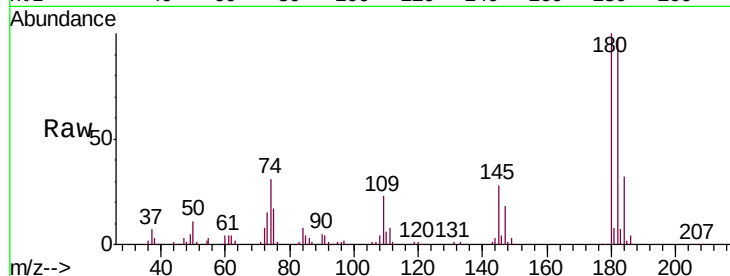




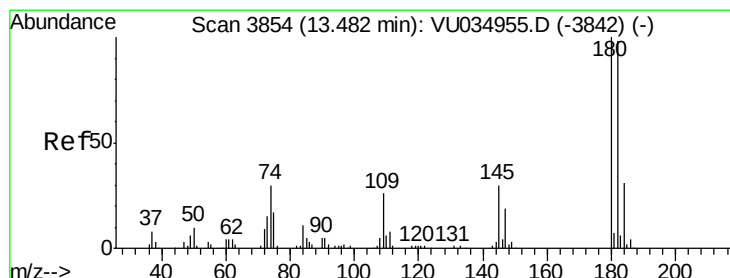
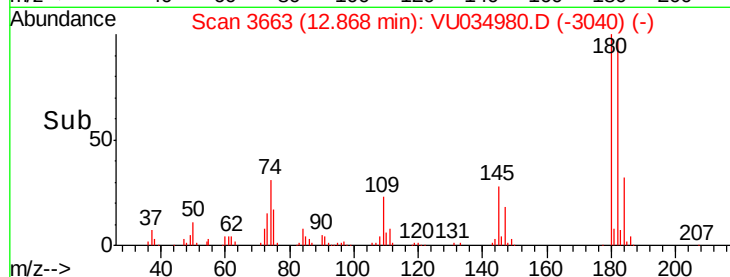
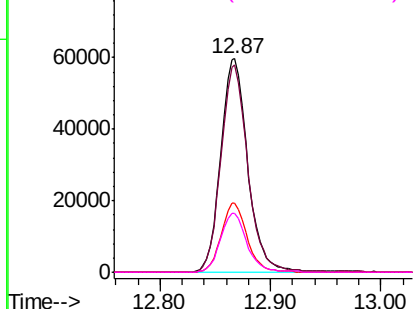
#67
 1,3,5-Trichlorobenzene
 Concen: 5.201 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00530

Tgt Ion:180 Resp: 101828
 Ion Ratio Lower Upper
 180 100
 182 96.3 75.7 113.5
 184 30.8 24.1 36.1
 145 27.0 22.5 33.7

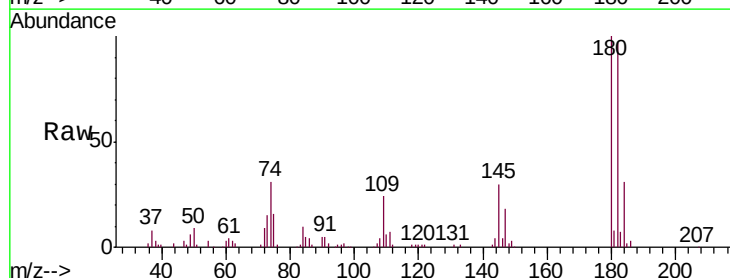


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

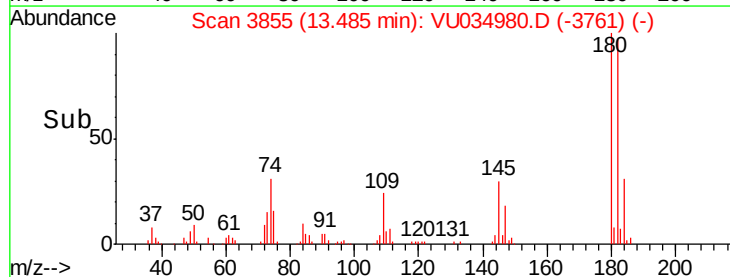
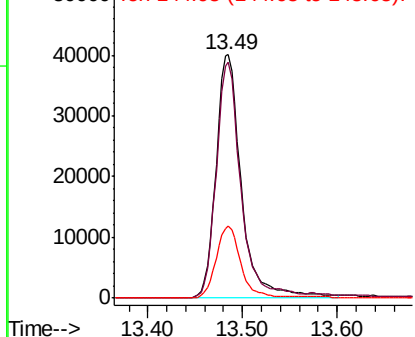


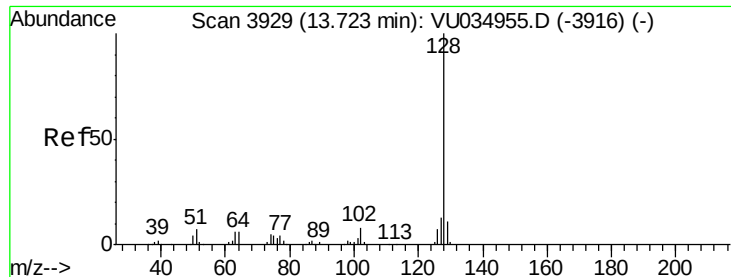
#68
 1,2,4-trichlorobenzene
 Concen: 5.119 ug/L
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034980.D
 Acq: 08 Oct 2019 08:57

Tgt Ion:180 Resp: 74847
 Ion Ratio Lower Upper
 180 100
 182 93.6 77.0 115.4
 145 28.6 22.2 33.4



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: 4.401 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00530

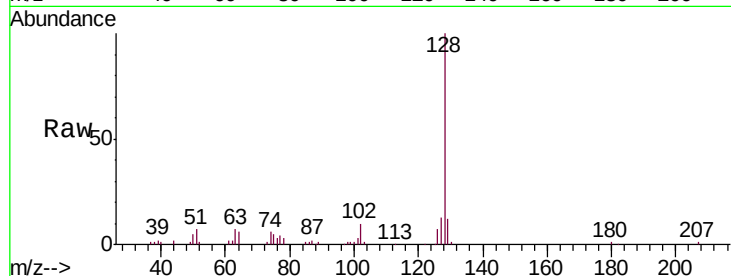
Tgt Ion:128 Resp: 100052

Ion Ratio Lower Upper

128 100

129 10.1 8.1 12.1

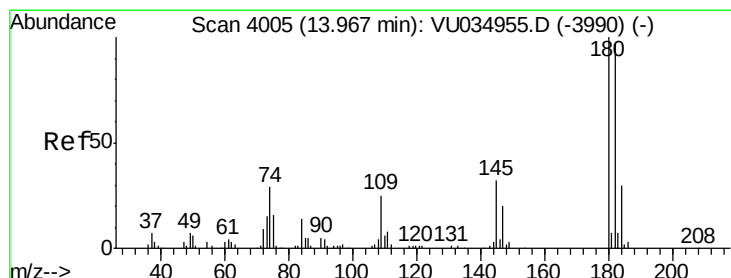
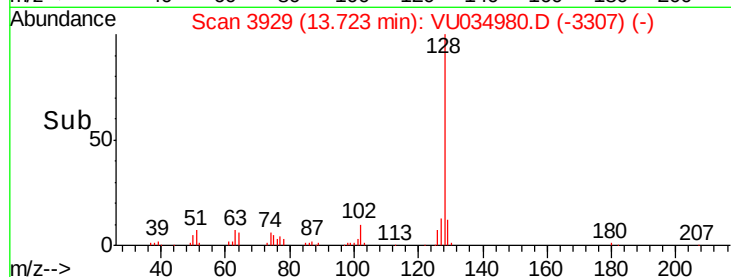
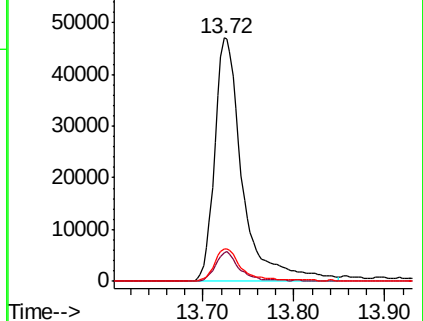
127 12.8 9.8 14.6



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: 5.054 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034980.D

Acq: 08 Oct 2019 08:57

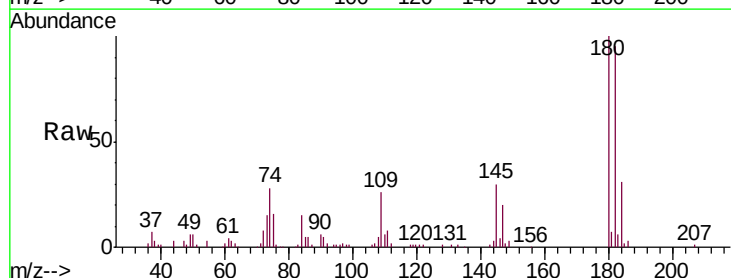
Tgt Ion:180 Resp: 71851

Ion Ratio Lower Upper

180 100

182 95.1 78.1 117.1

145 31.2 24.6 36.8



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

