

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035939.D
 Acq On : 03 Dec 2019 10:04
 Operator : JC/SP
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Quant Time: Dec 03 18:28:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 03 18:24:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	352097	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	361786	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	175534	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	190083	4.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.80%
7) Chloroethane-d5	1.93	69	151327	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.00%
11) 1,1-Dichloroethene-d2	2.59	63	277831	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.40%
20) 2-Butanone-d5	4.70	46	332348	46.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.52%
24) Chloroform-d	5.11	84	265547	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.75	65	134782	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
32) Benzene-d6	5.77	84	520304	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.73	67	161318	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.93	98	475339	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	8.21	79	66229	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
46) 2-Hexanone-d5	8.67	63	269625	48.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.84%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	135167	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	156581	4.32	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	189690	5.202	ug/L 100
3) Chloromethane	1.53	50	205493	4.935	ug/L 100
5) Vinyl chloride	1.62	62	218150	5.187	ug/L 99
6) Bromomethane	1.87	94	118180	4.900	ug/L 98
8) Chloroethane	1.95	64	125842	4.825	ug/L 98
9) Trichlorofluoromethane	2.16	101	254020	5.143	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	138467	5.117	ug/L 99
12) 1,1-Dichloroethene	2.60	96	130895	5.187	ug/L 96
13) Acetone	2.69	43	291979	45.438	ug/L 96
14) Carbon disulfide	2.82	76	449221	5.082	ug/L 99
15) Methyl Acetate	3.00	43	54970	4.773	ug/L 99
16) Methylene chloride	3.08	84	163629	4.186	ug/L 97
17) Methyl tert-butyl Ether	3.42	73	286919	4.854	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	133669	5.003	ug/L 96
19) 1,1-Dichloroethane	3.92	63	268529	5.141	ug/L 98
21) 2-Butanone	4.78	43	410245	49.733	ug/L 99
22) cis-1,2-Dichloroethene	4.71	96	139682	4.948	ug/L 99

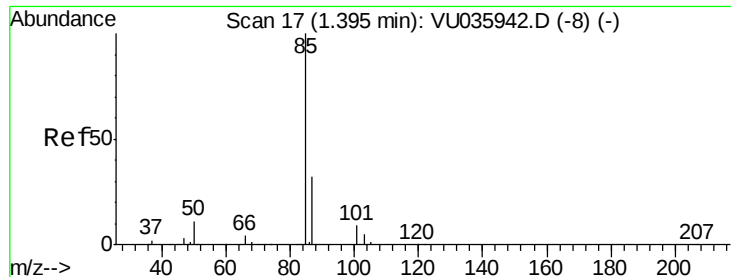
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\
 Data File : VU035939.D
 Acq On : 03 Dec 2019 10:04
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 03 18:24:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	66814	5.171	ug/L	97
25) Chloroform	5.13	83	263747	5.004	ug/L	98
27) 1,2-Dichloroethane	5.84	62	168558	5.004	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	222487	5.085	ug/L	99
30) Cyclohexane	5.43	56	215738	4.992	ug/L	99
31) Carbon tetrachloride	5.57	117	198411	5.115	ug/L	99
33) Benzene	5.82	78	588360	5.171	ug/L	100
34) Trichloroethene	6.58	95	143449	4.986	ug/L	98
35) Methylcyclohexane	6.80	83	215985	5.007	ug/L	99
37) 1,2-Dichloropropane	6.83	63	153836	4.994	ug/L	99
38) Bromodichloromethane	7.14	83	187387	5.082	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	207217	5.070	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	914667	50.517	ug/L	98
42) Toluene	8.00	91	624400	5.254	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	175006	5.008	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	107003	5.102	ug/L	98
47) Tetrachloroethene	8.58	164	116243	4.971	ug/L	99
48) 2-Hexanone	8.73	43	704734	52.693	ug/L	97
49) Dibromochloromethane	8.84	129	125529	4.908	ug/L	97
50) 1,2-Dibromoethane	8.96	107	102427	5.033	ug/L	99
51) Chlorobenzene	9.47	112	372199	5.015	ug/L	98
52) Ethylbenzene	9.60	91	610055	5.078	ug/L	100
53) m,p-Xylene	9.72	106	231401	5.103	ug/L	97
54) o-Xylene	10.13	106	221647	5.208	ug/L	96
55) Styrene	10.14	104	384538	5.373	ug/L	97
56) Isopropylbenzene	10.51	105	577599	5.178	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	137968	4.902	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	98239	4.906	ug/L	97
61) Bromoform	10.32	173	73384	4.526	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	288035	4.934	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	276992	4.780	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	271858	4.872	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	19413	4.466	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	187973	4.717	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	99138	4.642	ug/L	99
69) Naphthalene	14.11	128	89697	3.688	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	94562	4.472	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.202 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

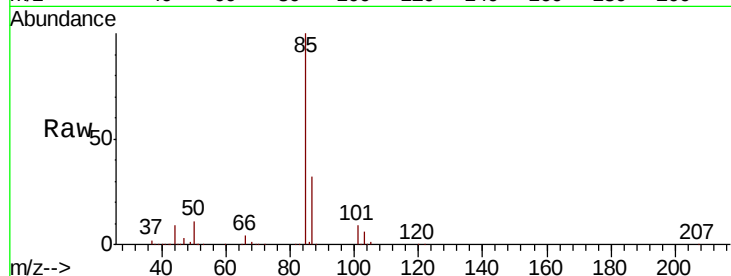
VSTD00519

Tot Ion: 85 Resp: 189690

Ion Ratio Lower Upper

85 100

87 32.0 25.4 38.2



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

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

1.39

200000

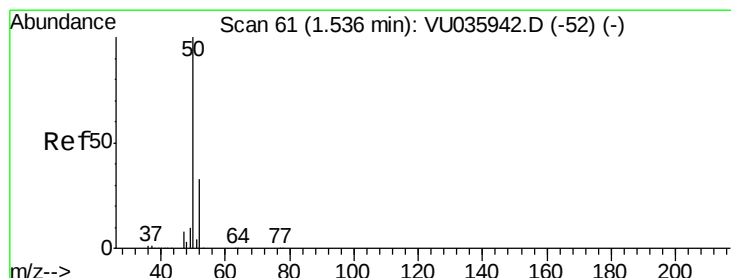
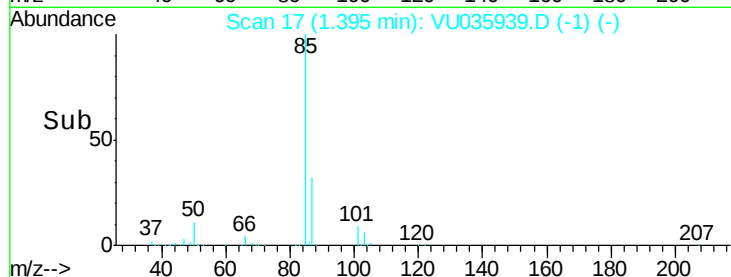
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.935 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU035939.D

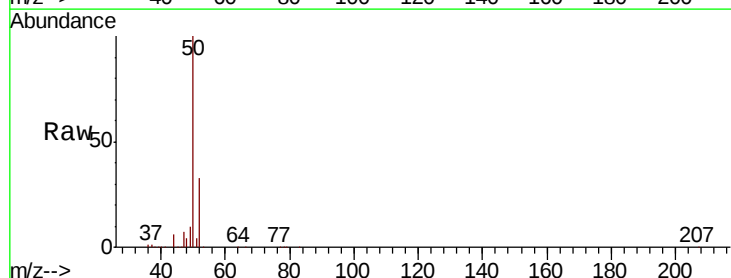
Acq: 03 Dec 2019 10:04

Tgt Ion: 50 Resp: 205493

Ion Ratio Lower Upper

50 100

52 32.9 23.1 42.9



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

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

1.53

200000

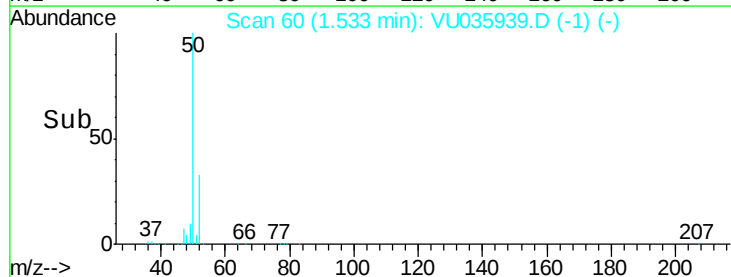
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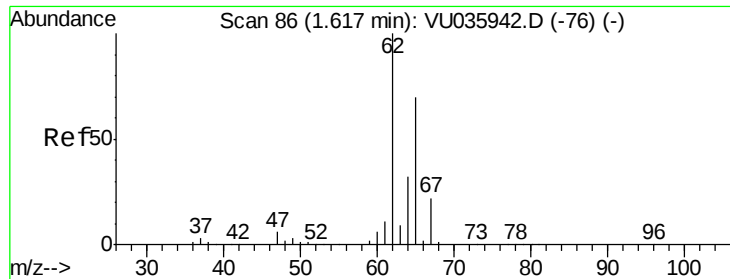
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 5.187 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

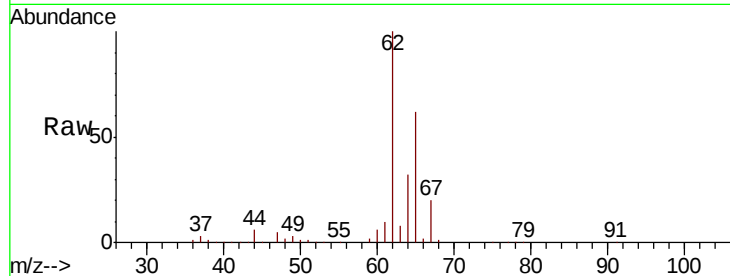
VSTD00519

Tot Ion: 62 Resp: 218150

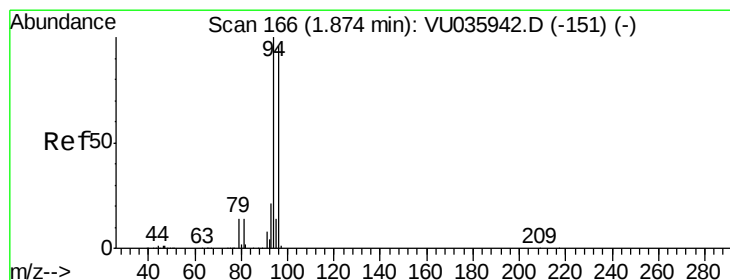
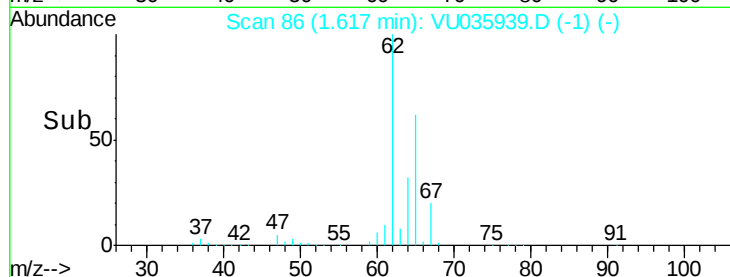
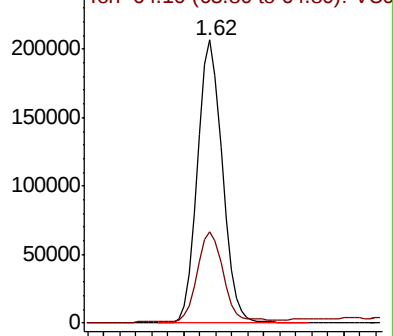
Ion Ratio Lower Upper

62 100

64 32.3 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU035939.D (-1) (-)



#6

Bromomethane

Concen: 4.900 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035939.D

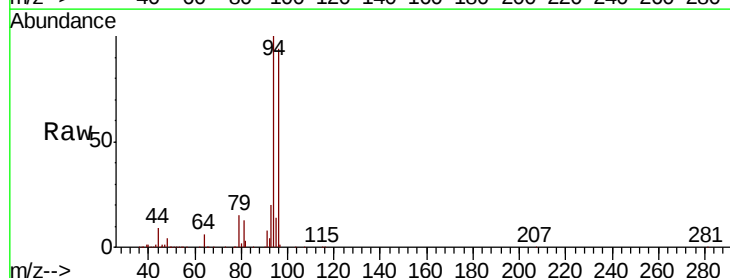
Acq: 03 Dec 2019 10:04

Tgt Ion: 94 Resp: 118180

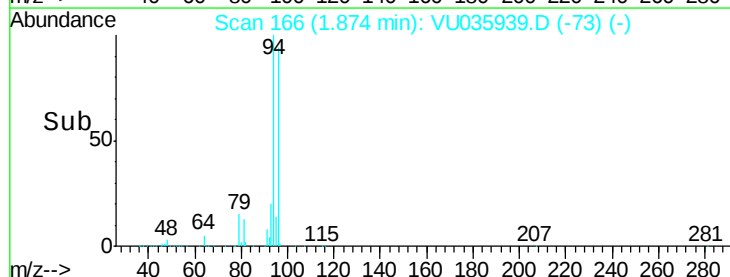
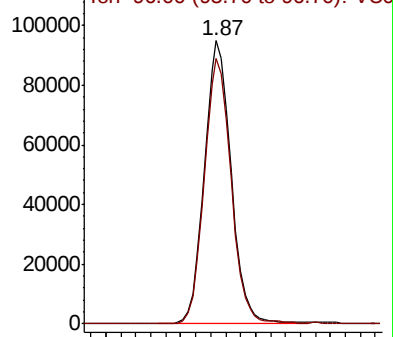
Ion Ratio Lower Upper

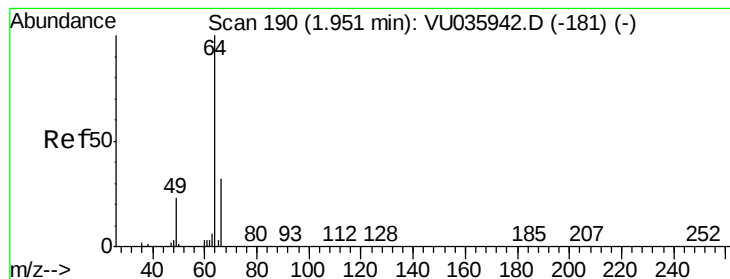
94 100

96 93.8 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU035939.D (-73) (-)





#8

Chloroethane

Concen: 4.825 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

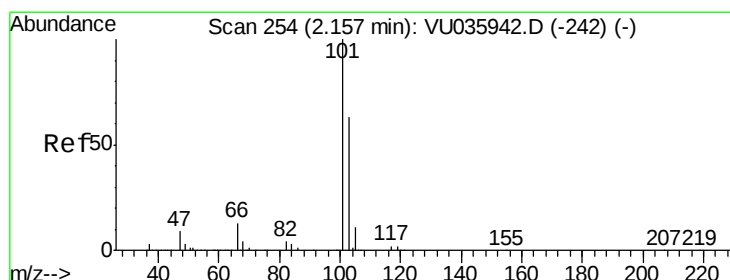
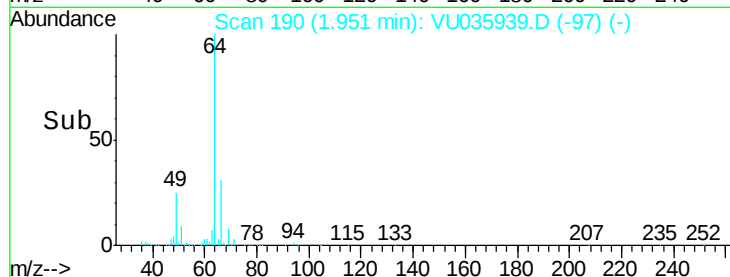
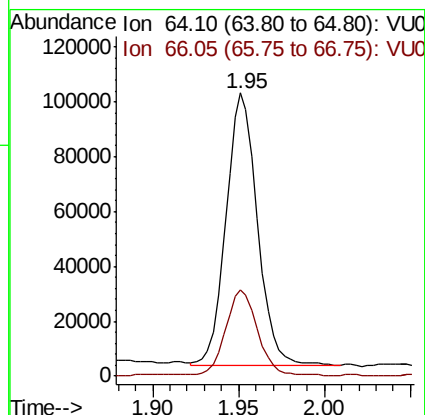
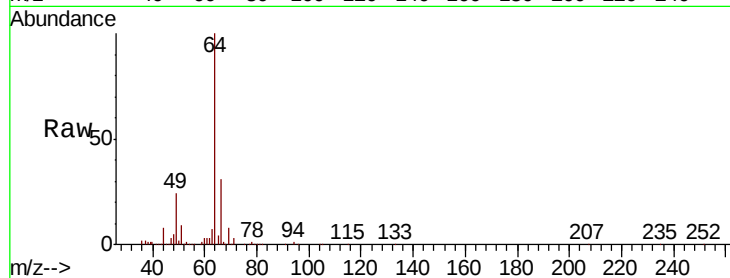
VSTD00519

Tot Ion: 64 Resp: 125842

Ion Ratio Lower Upper

64 100

66 30.5 22.0 40.8



#9

Trichlorofluoromethane

Concen: 5.143 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU035939.D

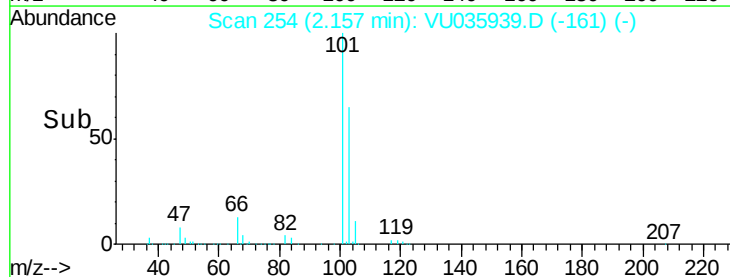
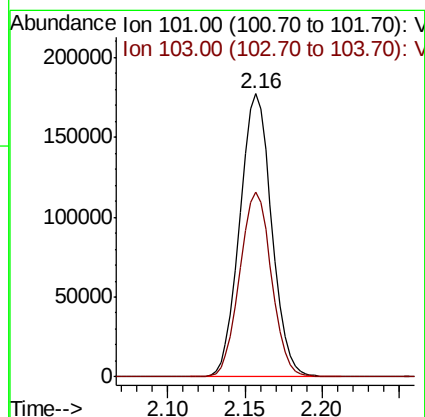
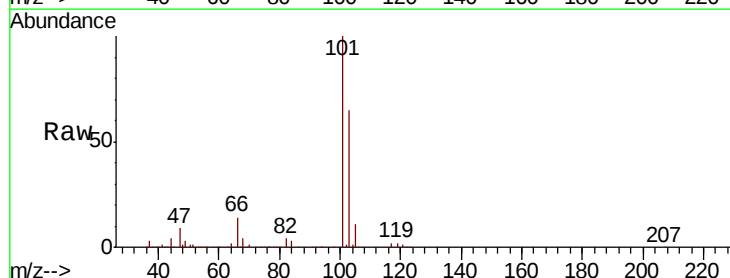
Acq: 03 Dec 2019 10:04

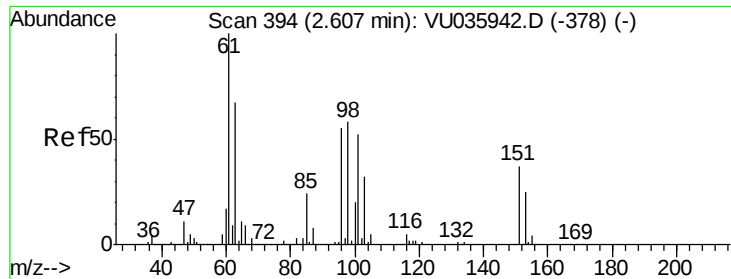
Tgt Ion: 101 Resp: 254020

Ion Ratio Lower Upper

101 100

103 65.1 51.8 77.8





#10

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

Concen: 5.117 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

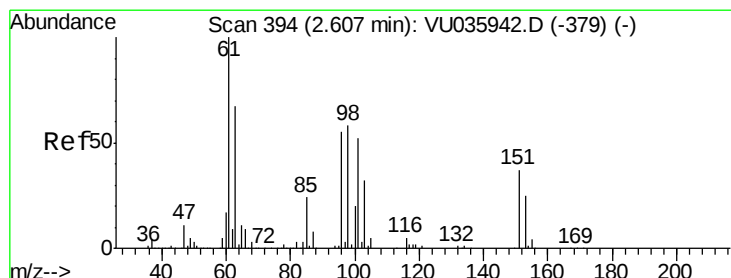
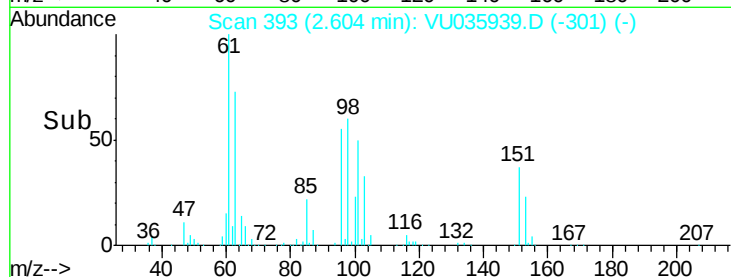
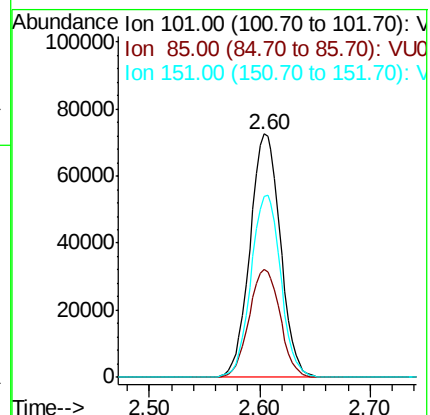
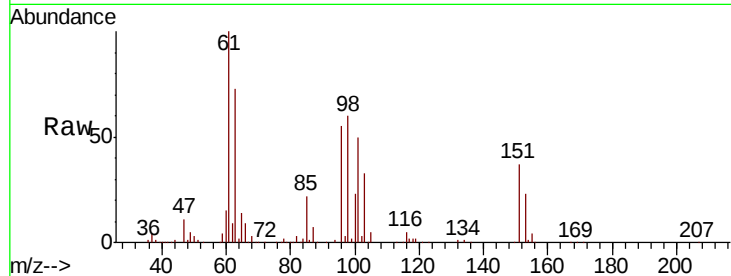
Tot Ion:101 Resp: 138467

Ion Ratio Lower Upper

101 100

85 45.0 35.5 53.3

151 73.3 57.5 86.3



#12

1,1-Dichloroethene

Concen: 5.187 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

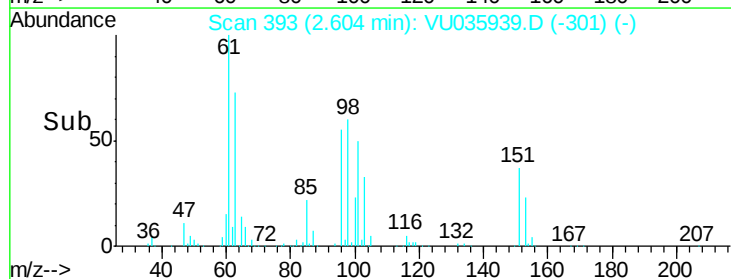
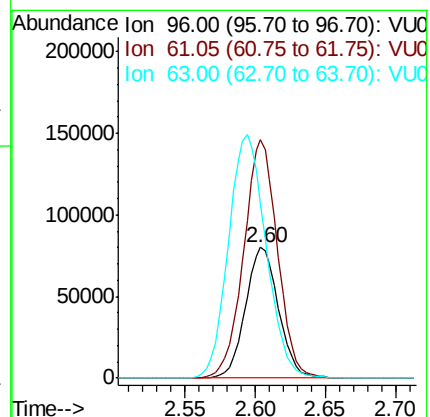
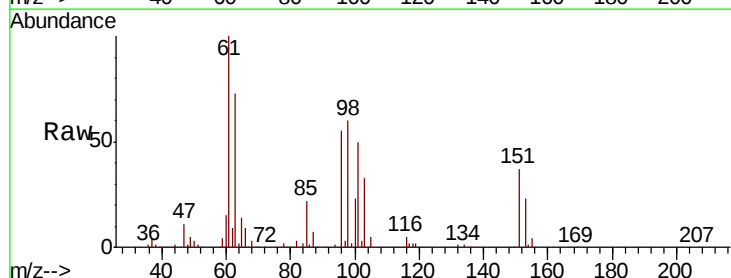
Tgt Ion: 96 Resp: 130895

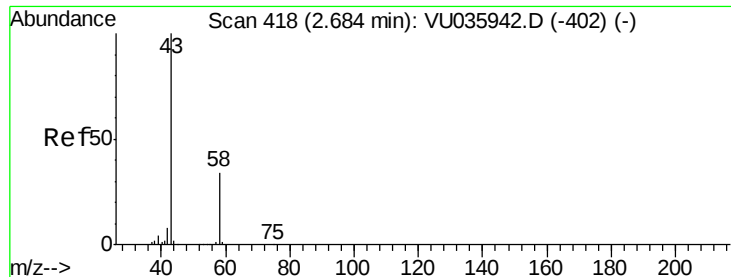
Ion Ratio Lower Upper

96 100

61 182.8 127.1 236.1

63 133.1 86.0 159.8





#13

Acetone

Concen: 45.438 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

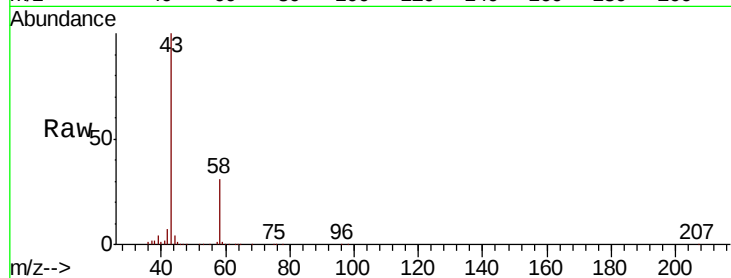
VSTD00519

Tot Ion: 43 Resp: 291979

Ion Ratio Lower Upper

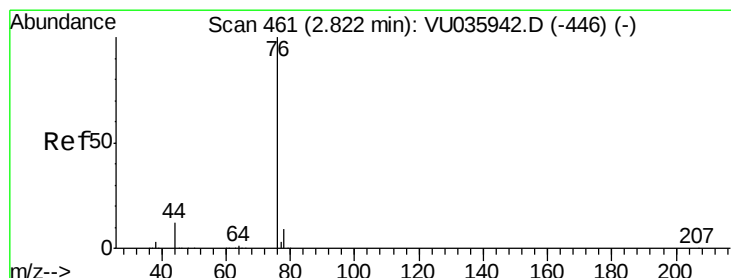
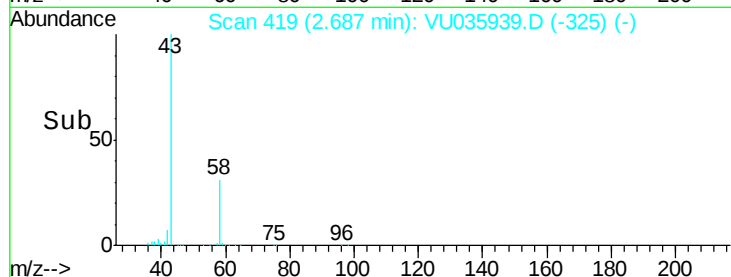
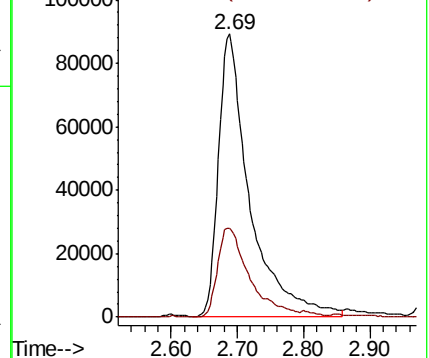
43 100

58 32.2 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035939.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU035939.D (-325) (-)



#14

Carbon disulfide

Concen: 5.082 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU035939.D

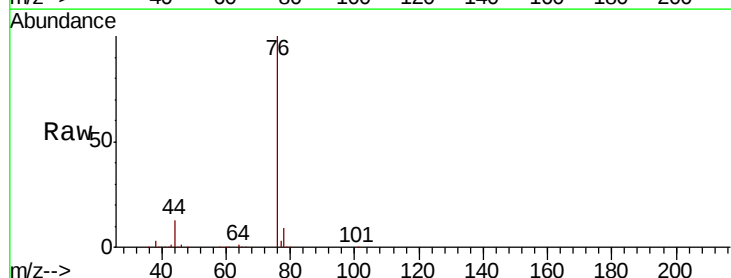
Acq: 03 Dec 2019 10:04

Tgt Ion: 76 Resp: 449221

Ion Ratio Lower Upper

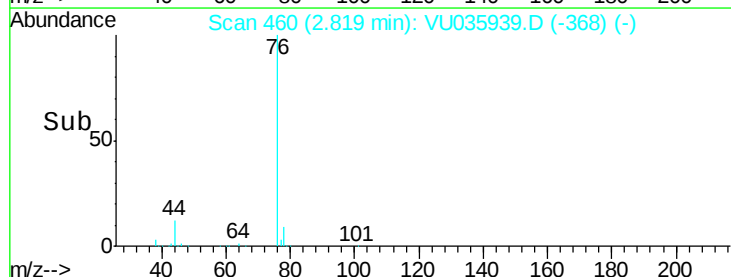
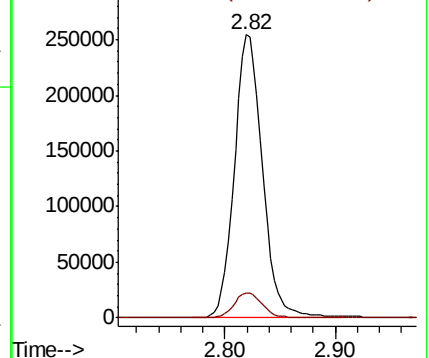
76 100

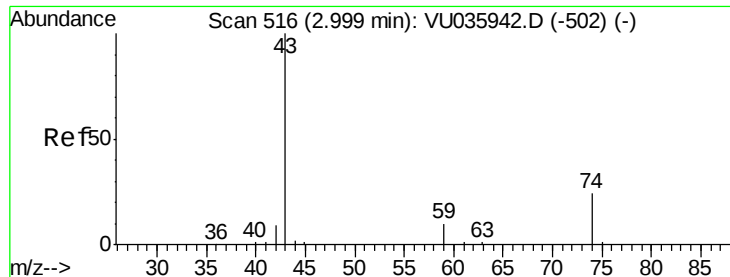
78 8.9 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU035939.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU035939.D (-368) (-)

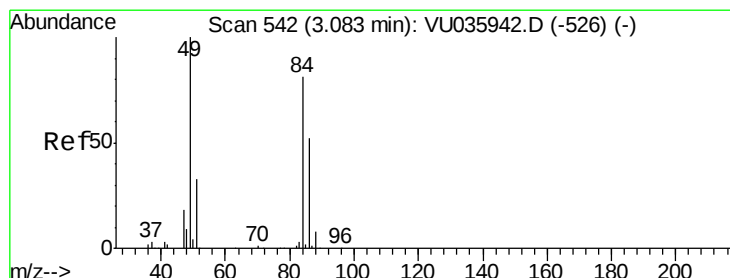
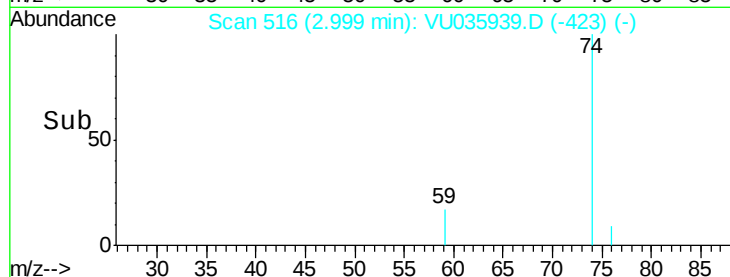
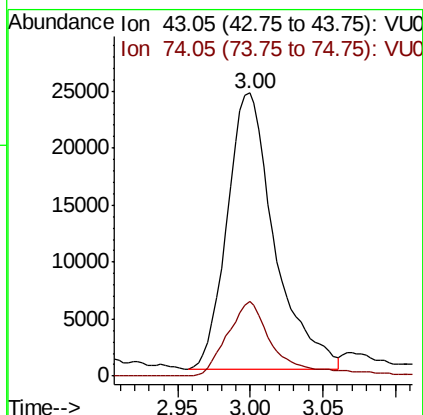
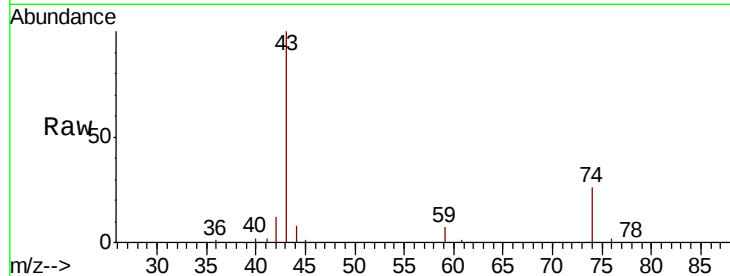




#15
Methyl Acetate
Concen: 4.773 ug/L
RT: 3.00 min Scan# 516
Delta R.T. 0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

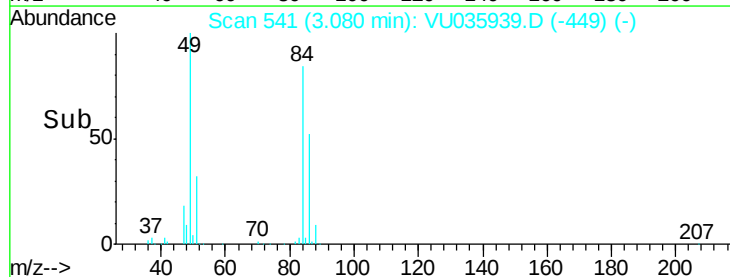
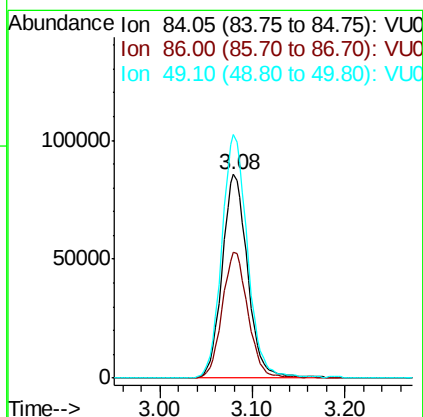
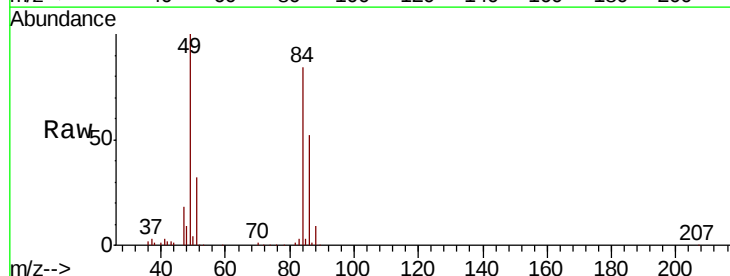
Instrument :
MSVOA_U
ClientSampled :
VSTD00519

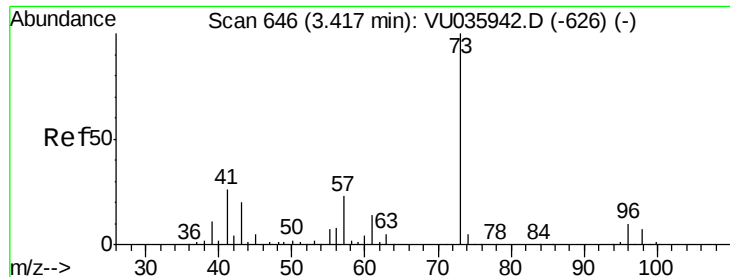
Tot Ion: 43 Resp: 54970
Ion Ratio Lower Upper
43 100
74 25.7 20.0 30.0



#16
Methylene chloride
Concen: 4.186 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Tgt Ion: 84 Resp: 163629
Ion Ratio Lower Upper
84 100
86 61.7 44.7 82.9
49 119.7 86.2 160.2

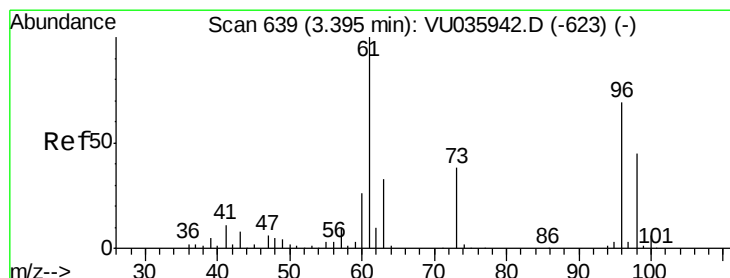
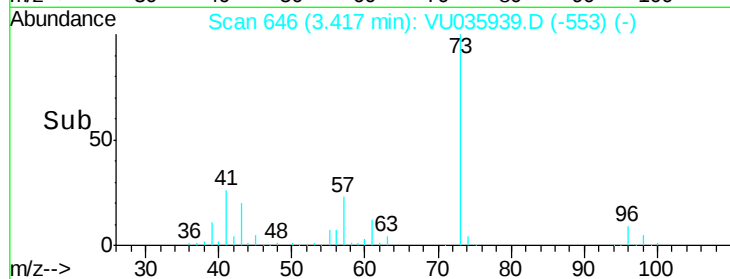
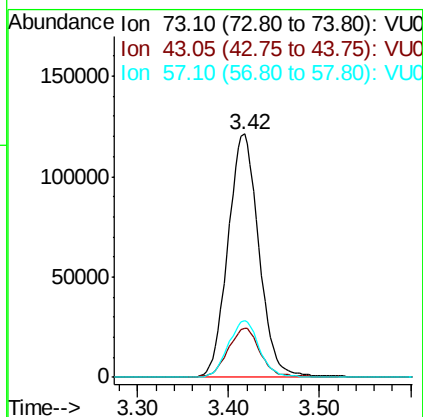
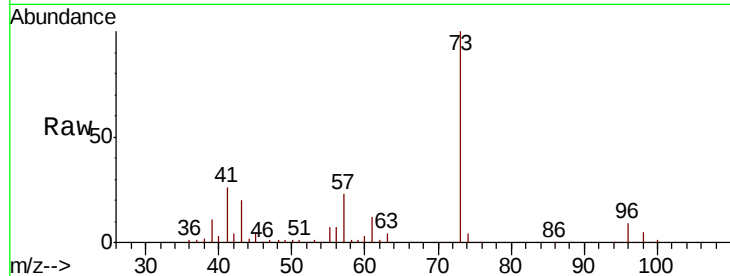




#17
Methvl tert-butvl Ether
Concen: 4.854 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

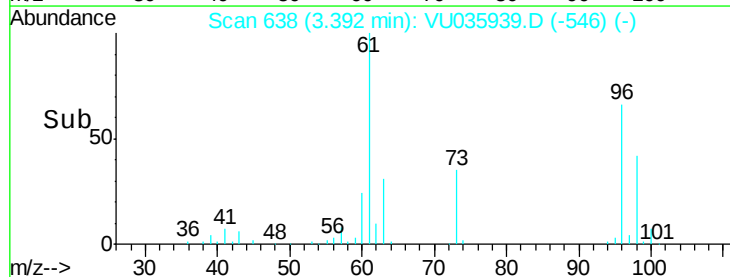
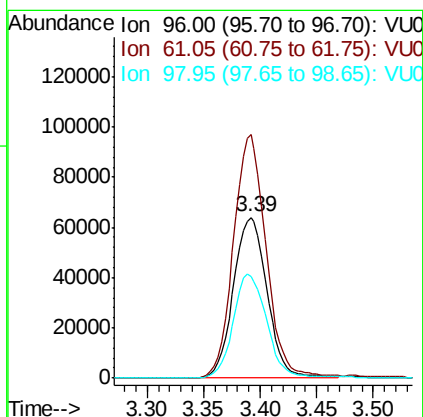
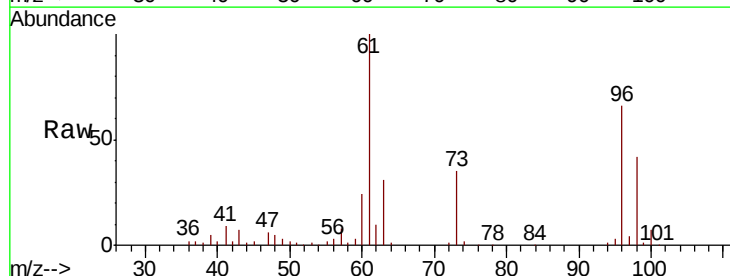
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

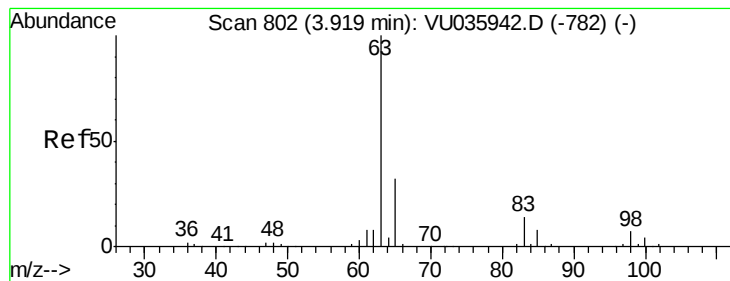
Tot Ion: 73 Resp: 286919
Ion Ratio Lower Upper
73 100
43 20.5 15.9 23.9
57 23.4 18.8 28.2



#18
trans-1,2-Dichloroethene
Concen: 5.003 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Tgt Ion: 96 Resp: 133669
Ion Ratio Lower Upper
96 100
61 151.5 101.2 187.8
98 63.1 45.0 83.6





#19

1,1-Dichloroethane

Concen: 5.141 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampled :

VSTD00519

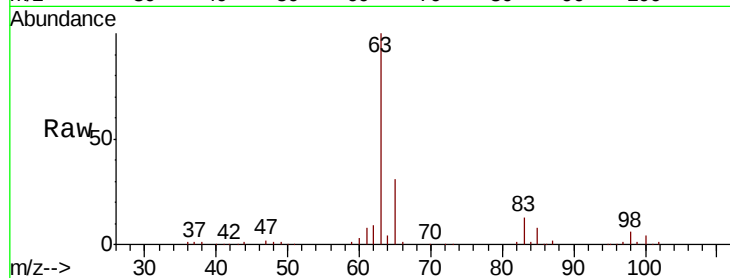
Tot Ion: 63 Resp: 268529

Ion Ratio Lower Upper

63 100

65 31.0 22.4 41.6

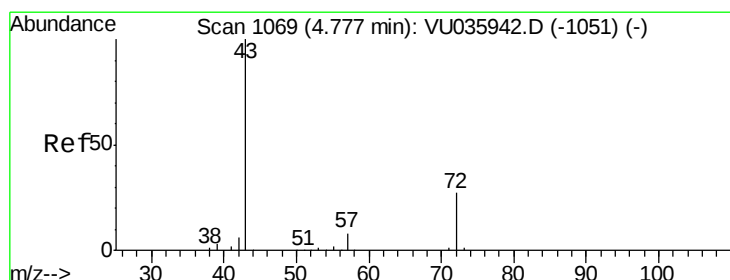
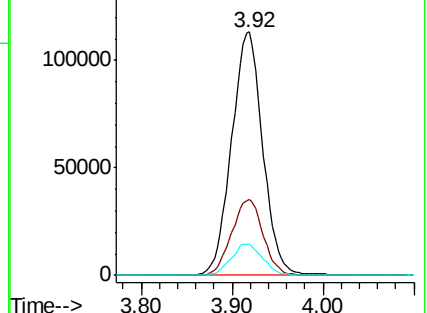
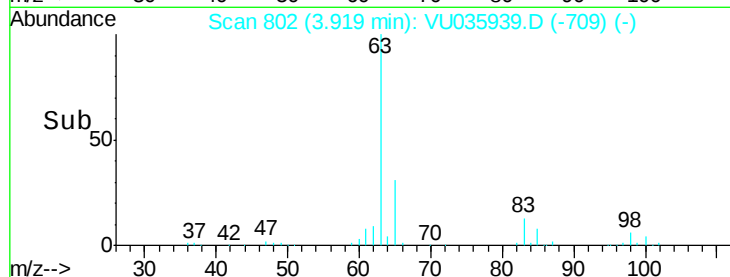
83 12.7 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU035939.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035939.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035939.D (-709) (-)



#21

2-Butanone

Concen: 49.733 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU035939.D

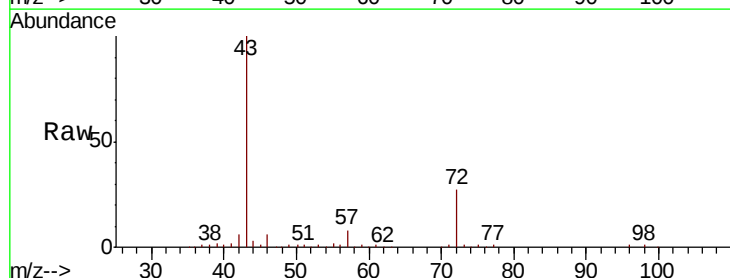
Acq: 03 Dec 2019 10:04

Tgt Ion: 43 Resp: 410245

Ion Ratio Lower Upper

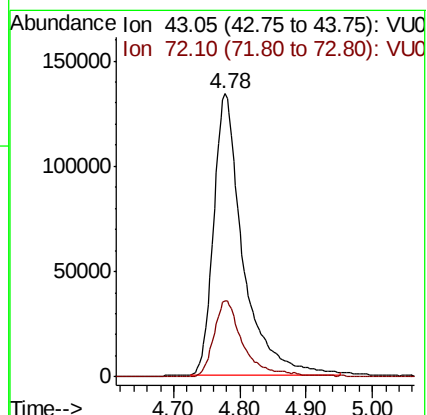
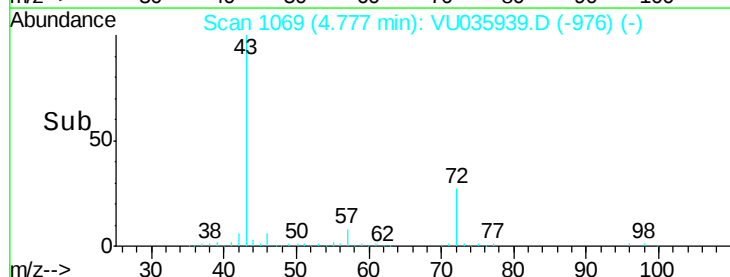
43 100

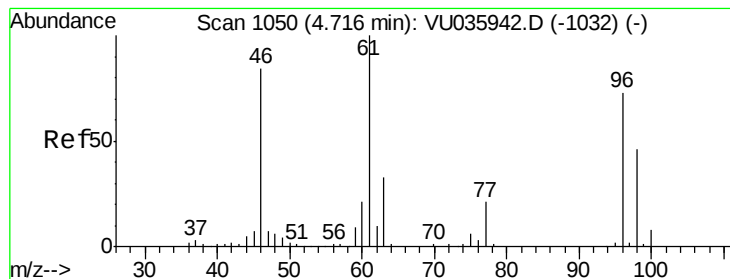
72 25.8 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU035939.D (-976) (-)

Ion 72.10 (71.80 to 72.80): VU035939.D (-976) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.948 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampled :

VSTD00519

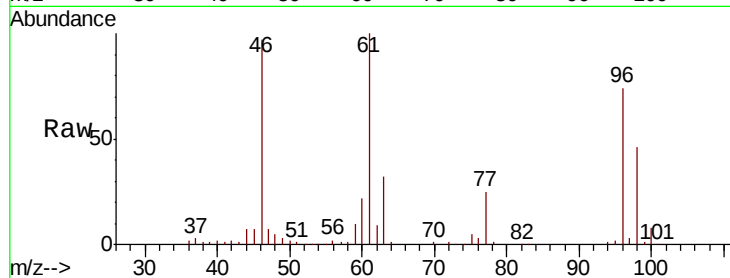
Tot Ion: 96 Resp: 139682

Ion Ratio Lower Upper

96 100

61 135.3 95.7 177.7

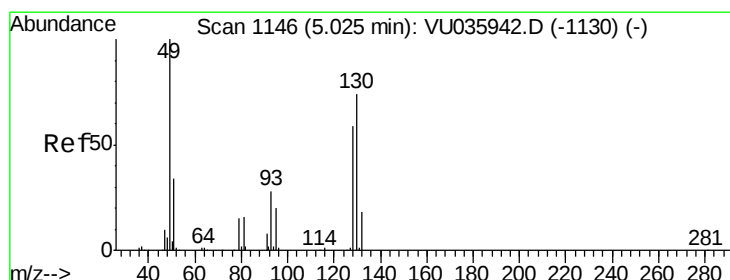
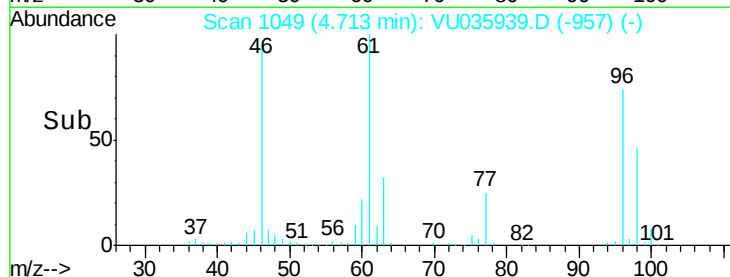
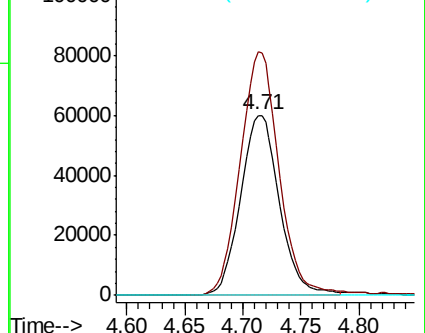
68 0.0 0.0 0.0



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

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

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



#23

Bromochloromethane

Concen: 5.171 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Tgt Ion: 128 Resp: 66814

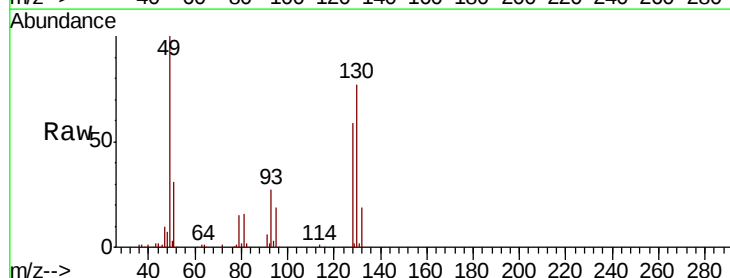
Ion Ratio Lower Upper

128 100

49 169.0 118.3 219.7

130 130.5 86.9 161.3

51 52.9 45.6 68.4

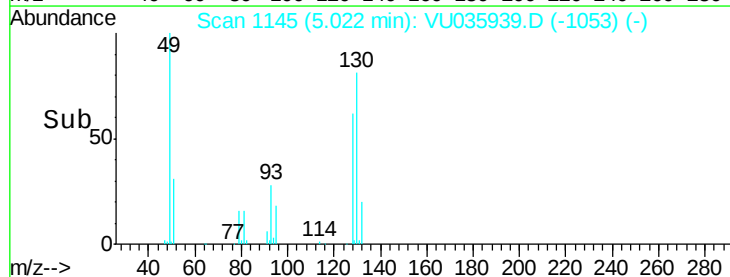
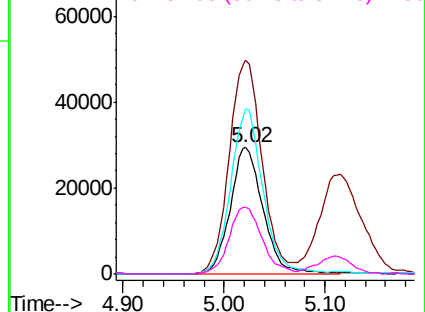


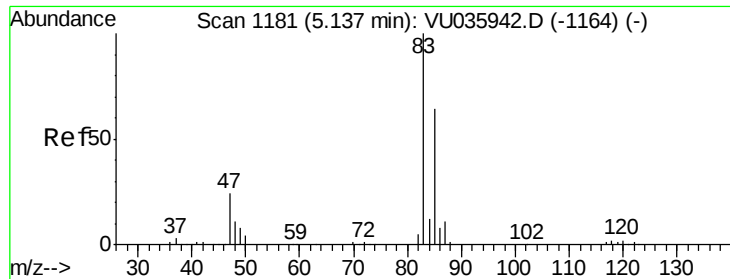
Abundance Ion 127.90 (127.60 to 128.60): VU035942.D (-1130) (-)

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

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

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

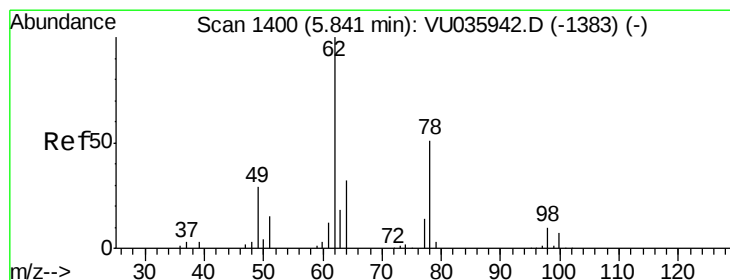
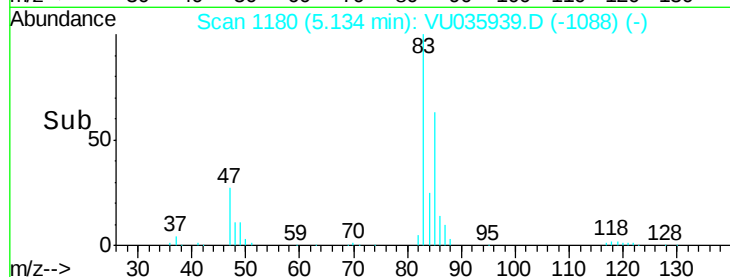
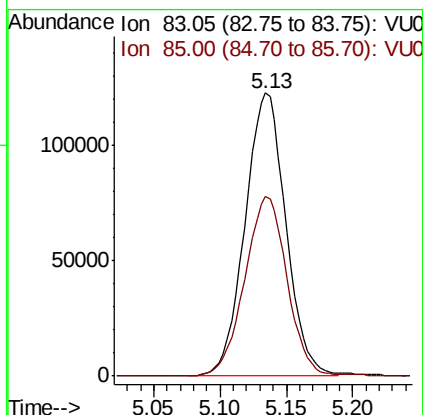
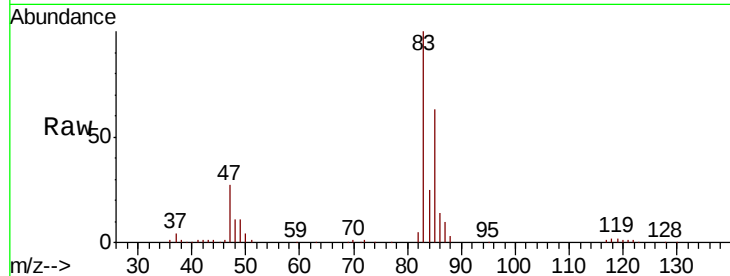




#25
Chloroform
Concen: 5.004 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

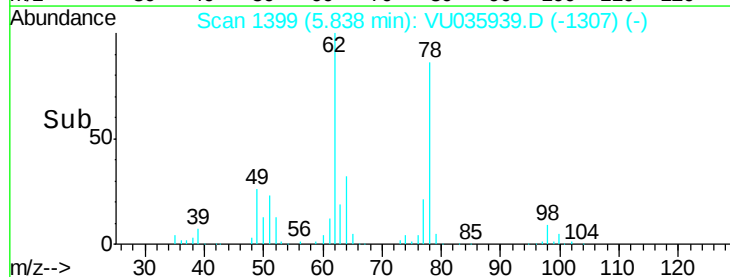
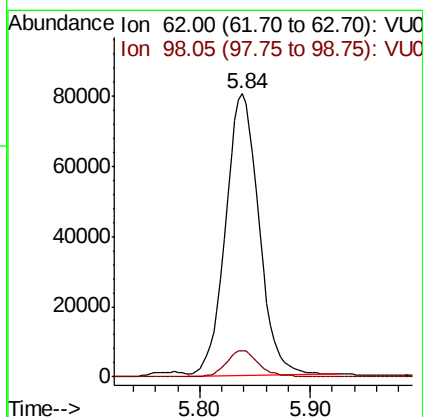
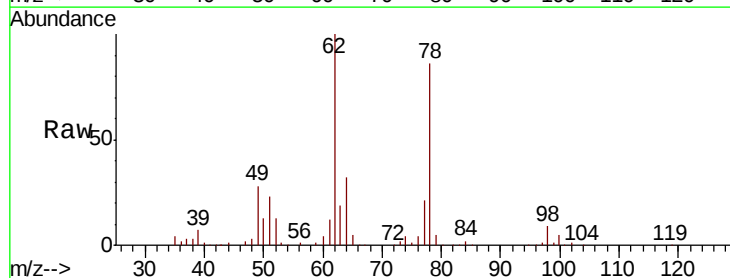
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

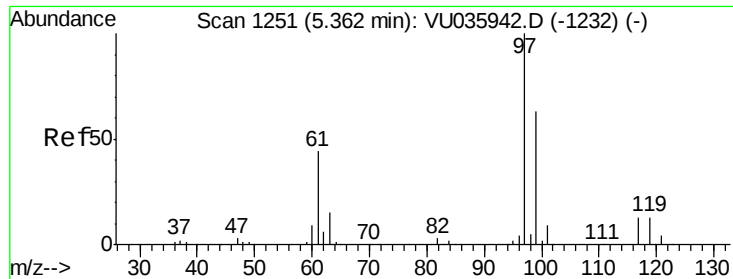
Tot Ion: 83 Resp: 263747
Ion Ratio Lower Upper
83 100
85 63.4 45.4 84.2



#27
1,2-Dichloroethane
Concen: 5.004 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Tgt Ion: 62 Resp: 168558
Ion Ratio Lower Upper
62 100
98 9.4 7.6 11.4

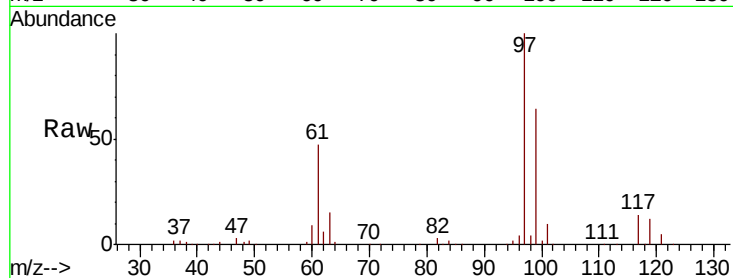




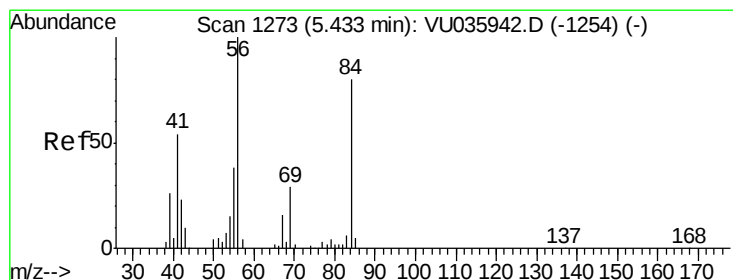
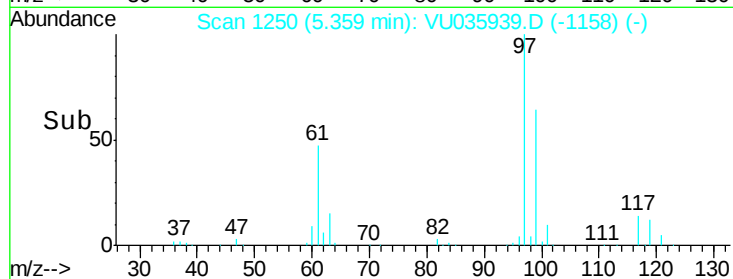
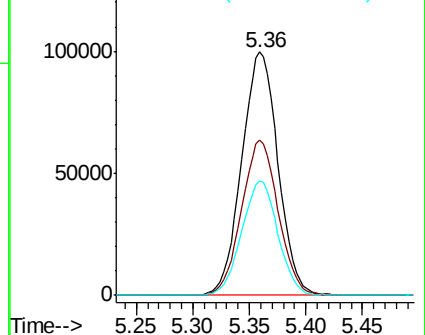
#29
 1,1,1-Trichloroethane
 Concen: 5.085 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion: 97 Resp: 222487
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.8 77.8
 61 46.5 37.6 56.4

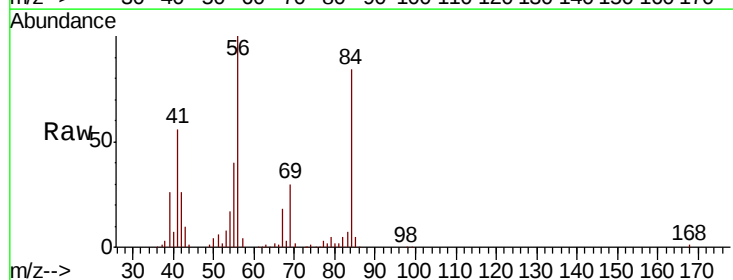


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

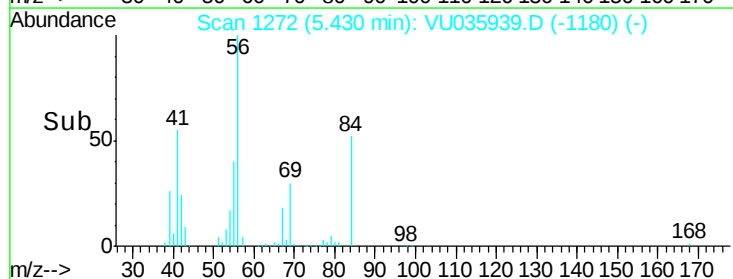
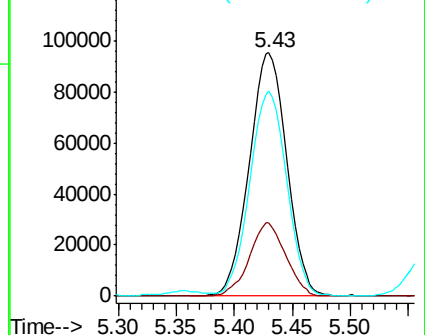


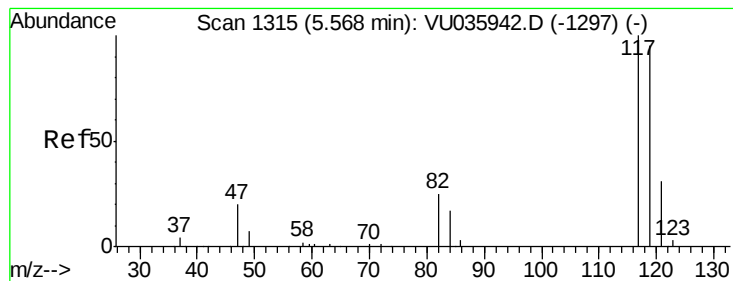
#30
 Cyclohexane
 Concen: 4.992 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Tgt Ion: 56 Resp: 215738
 Ion Ratio Lower Upper
 56 100
 69 29.0 24.0 36.0
 84 83.1 66.9 100.3



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





#31

Carbon tetrachloride

Concen: 5.115 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

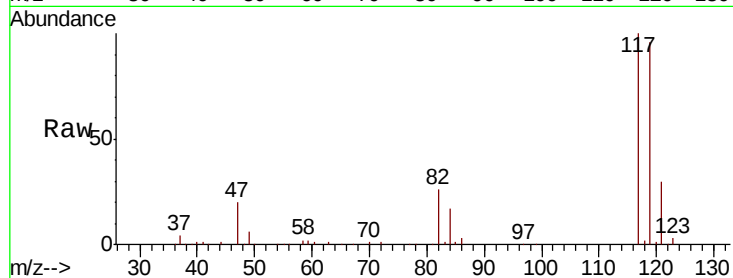
VSTD00519

Tot Ion:117 Resp: 198411

Ion Ratio Lower Upper

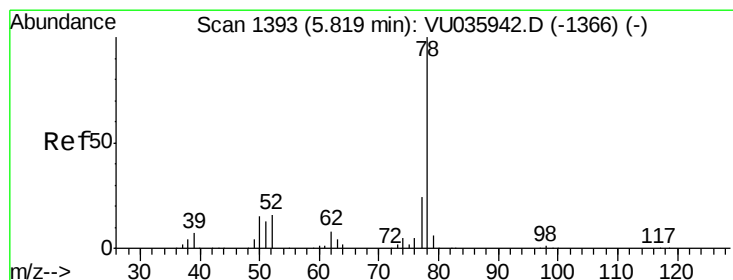
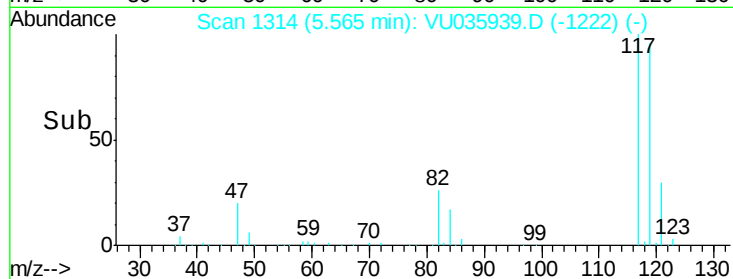
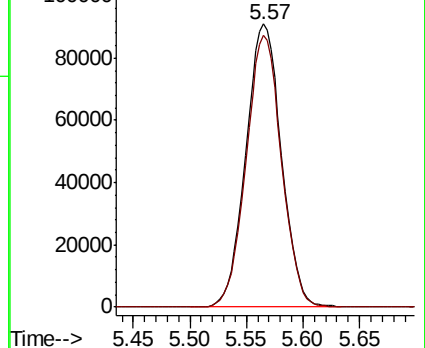
117 100

119 95.3 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.171 ug/L

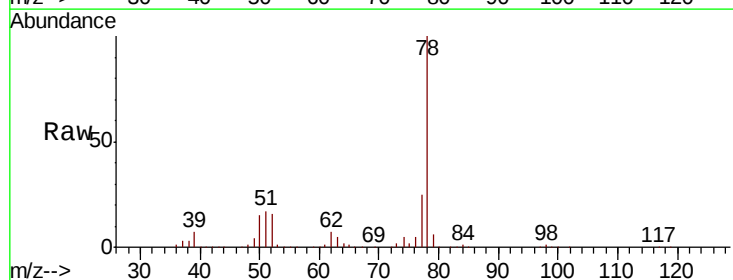
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

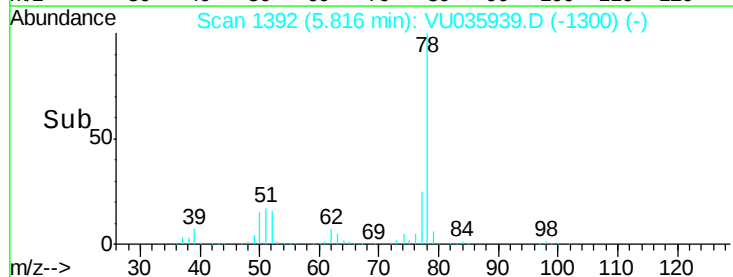
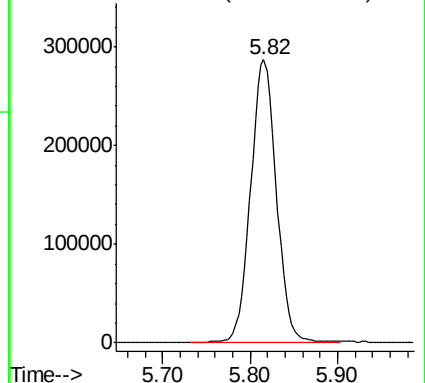
Lab File: VU035939.D

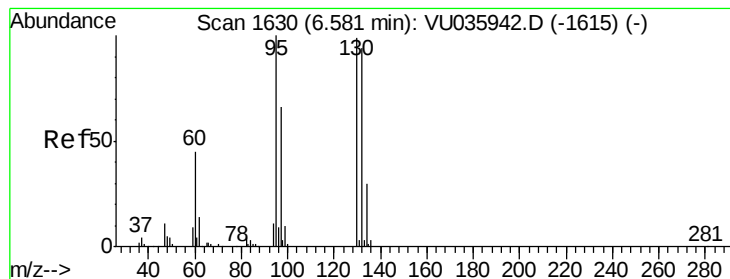
Acq: 03 Dec 2019 10:04

Tgt Ion: 78 Resp: 588360



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.986 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

Tot Ion: 95 Resp: 143449

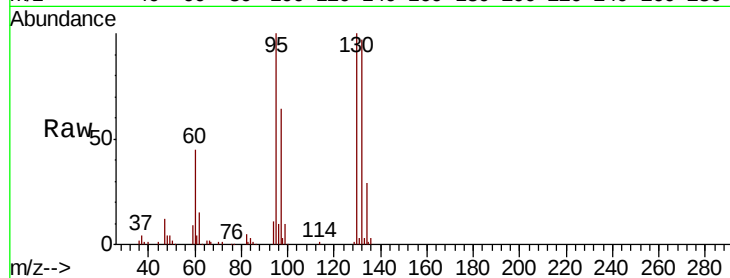
Ion Ratio Lower Upper

95 100

97 64.0 46.3 85.9

132 96.6 65.7 122.1

130 99.9 69.2 128.6

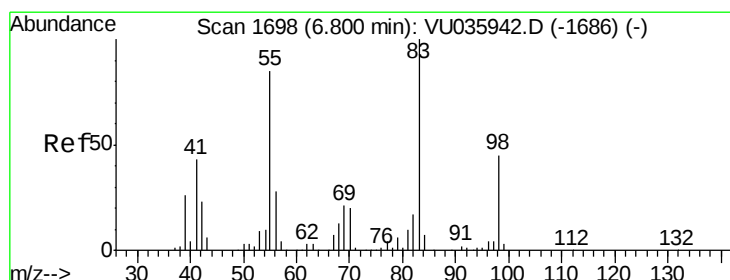
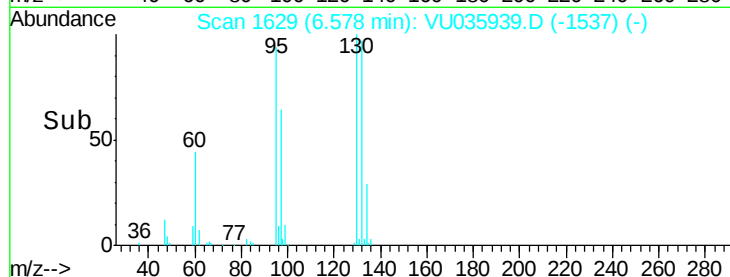
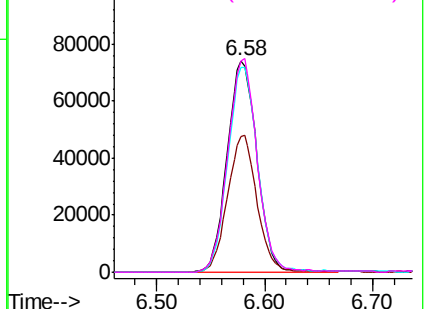


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.007 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

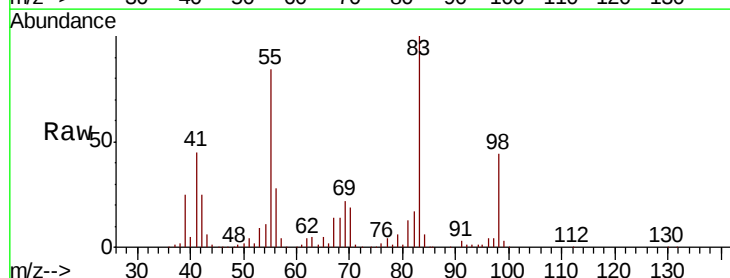
Tgt Ion: 83 Resp: 215985

Ion Ratio Lower Upper

83 100

55 82.9 67.4 101.0

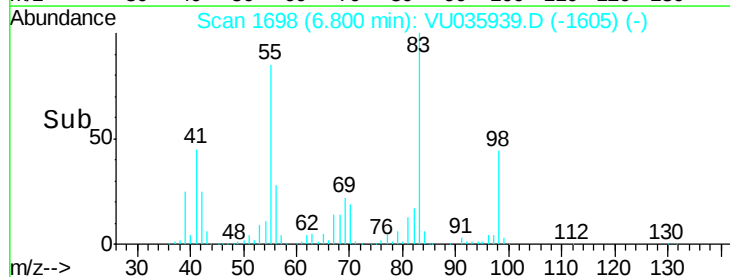
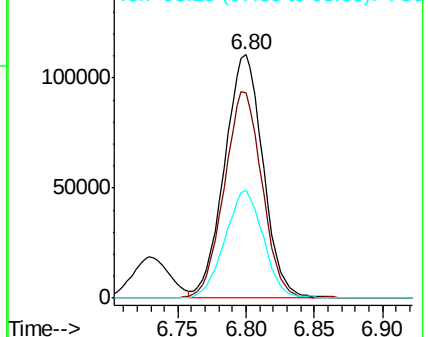
98 44.2 34.6 52.0

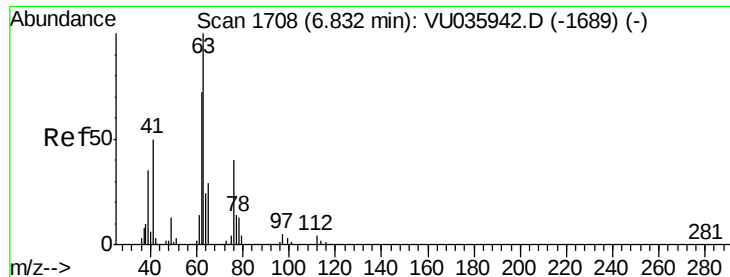


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.994 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

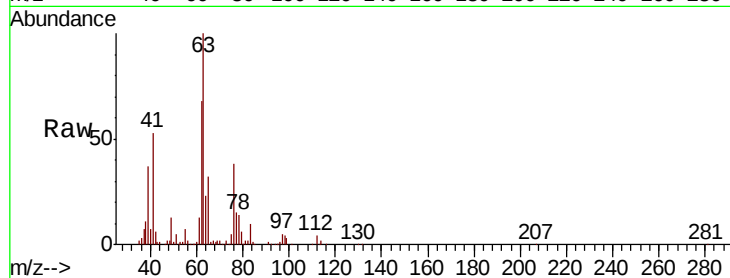
VSTD00519

Tot Ion: 63 Resp: 153836

Ion Ratio Lower Upper

63 100

112 4.3 3.3 4.9



Abundance Ion 63.10 (62.80 to 63.80): VU035939.D (-1615) (-)

Ion 112.10 (111.80 to 112.80): VU035939.D (-1615) (-)

6.83

80000

60000

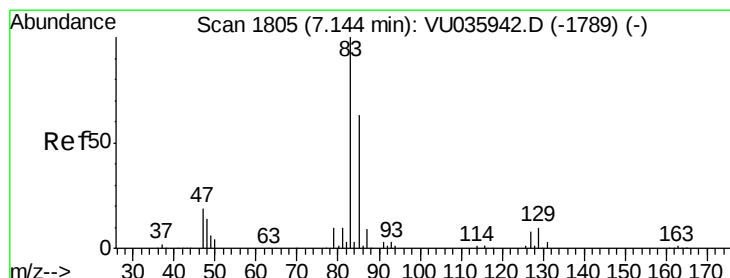
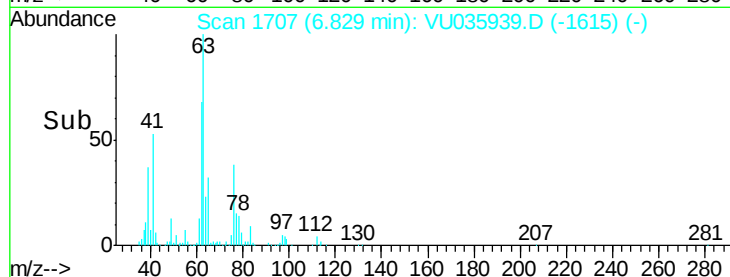
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 5.082 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

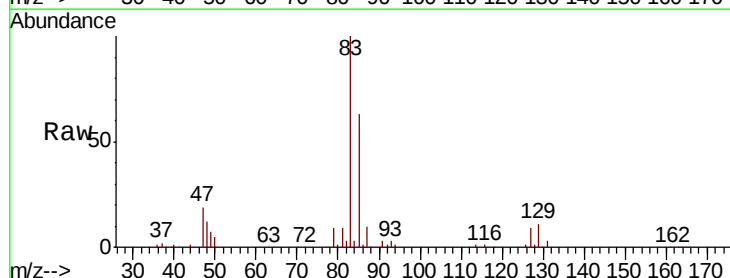
Tgt Ion: 83 Resp: 187387

Ion Ratio Lower Upper

83 100

85 62.7 44.0 81.8

127 8.7 6.5 9.7



Abundance Ion 82.95 (82.65 to 83.65): VU035939.D (-1712) (-)

Ion 85.00 (84.70 to 85.70): VU035939.D (-1712) (-)

Ion 126.90 (126.60 to 127.60): VU035939.D (-1712) (-)

7.14

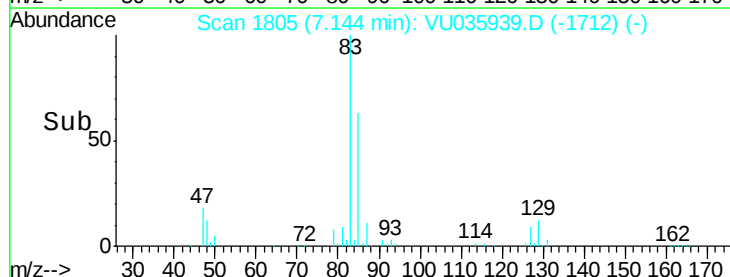
100000

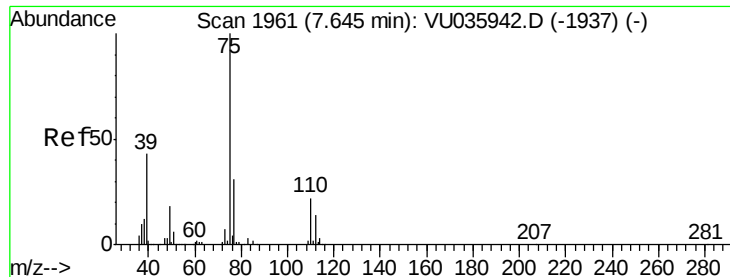
50000

0

7.05 7.10 7.15 7.20 7.25

Time-->

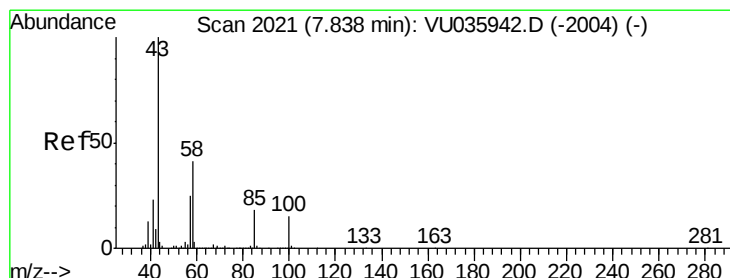
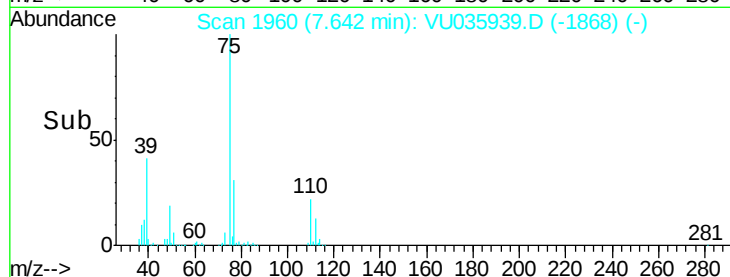
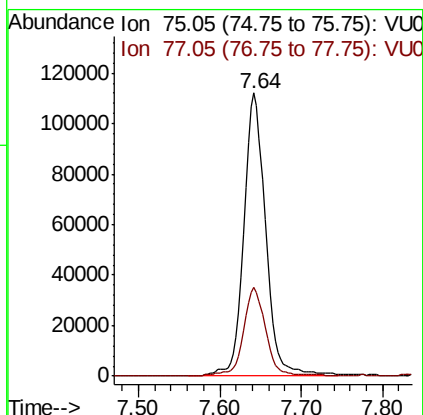
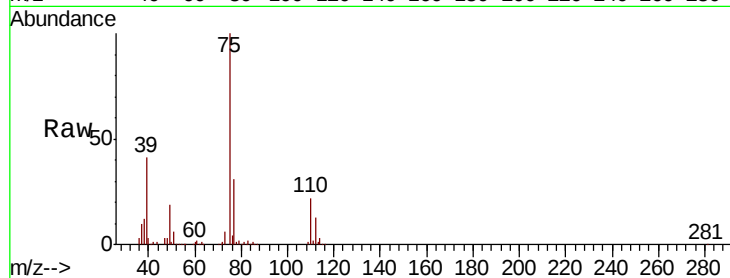




#39
 cis-1,3-Dichloropropene
 Concen: 5.070 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. -0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

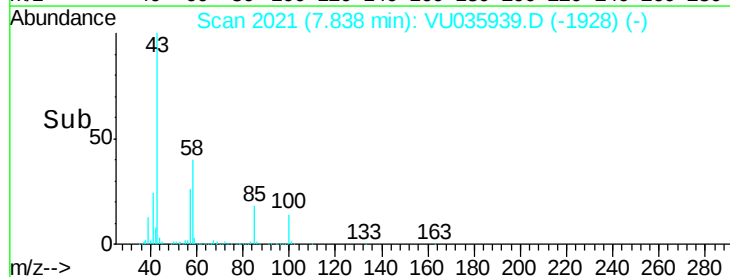
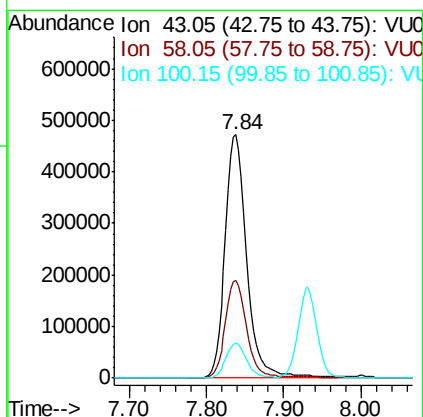
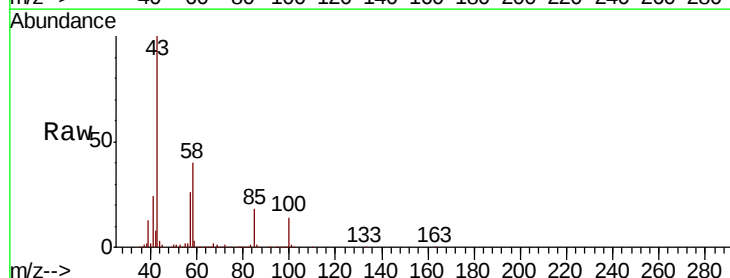
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

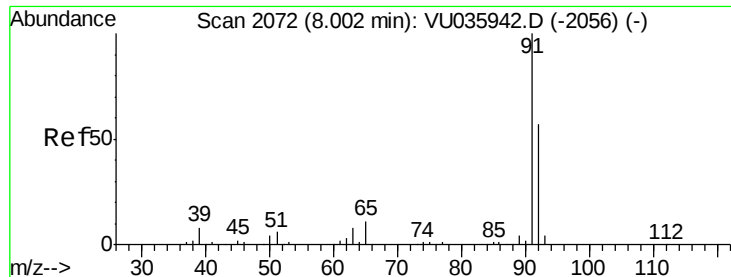
Tot Ion: 75 Resp: 207217
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 50.517 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Tgt Ion: 43 Resp: 914667
 Ion Ratio Lower Upper
 43 100
 58 39.5 32.3 48.5
 100 13.8 11.7 17.5





#42

Toluene

Concen: 5.254 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

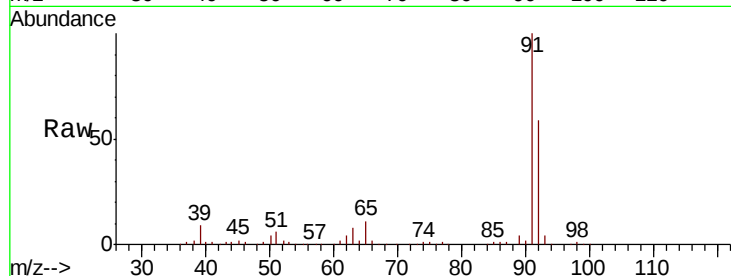
VSTD00519

Tot Ion: 91 Resp: 624400

Ion Ratio Lower Upper

91 100

92 58.5 39.8 74.0



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

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

8.00

400000

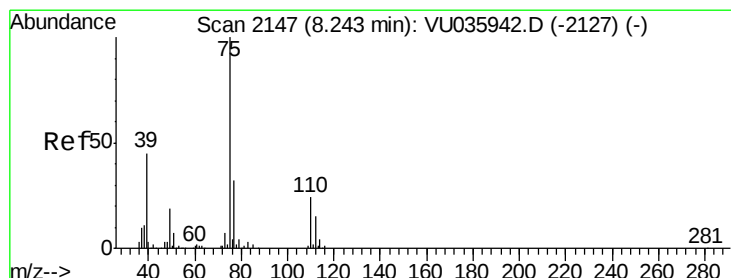
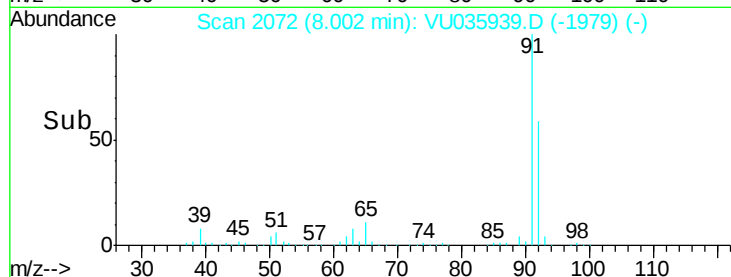
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.008 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU035939.D

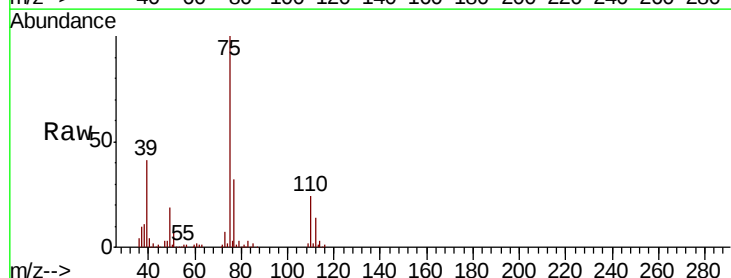
Acq: 03 Dec 2019 10:04

Tgt Ion: 75 Resp: 175006

Ion Ratio Lower Upper

75 100

77 31.5 22.4 41.6



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

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

8.24

100000

80000

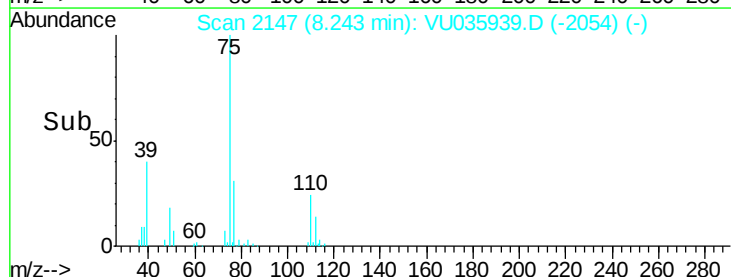
60000

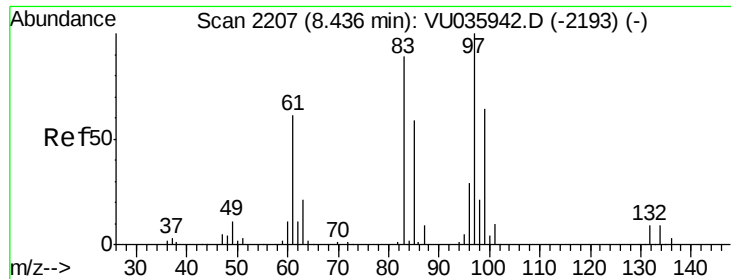
40000

20000

0

Time-->

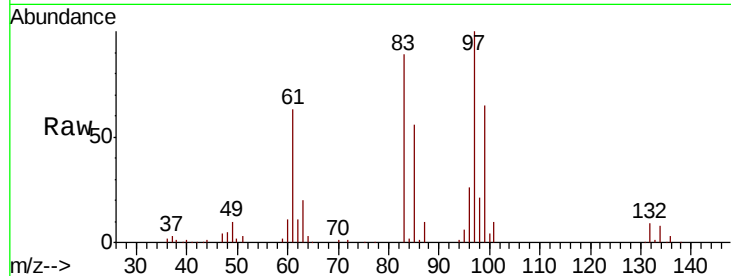




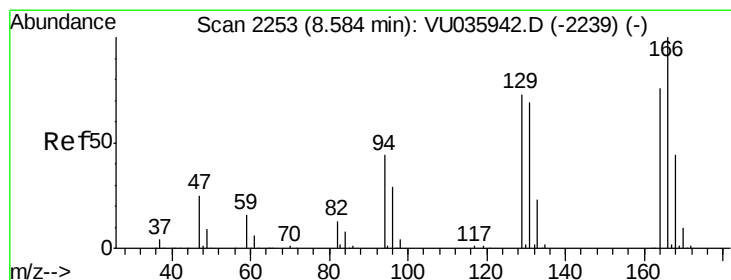
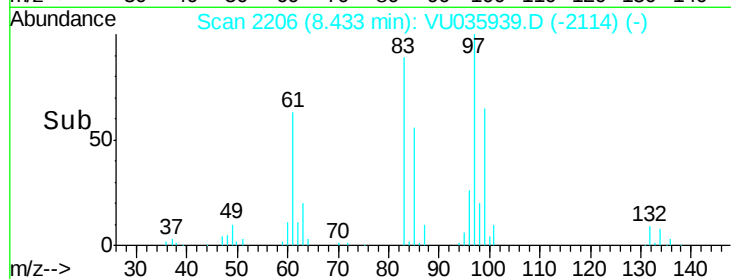
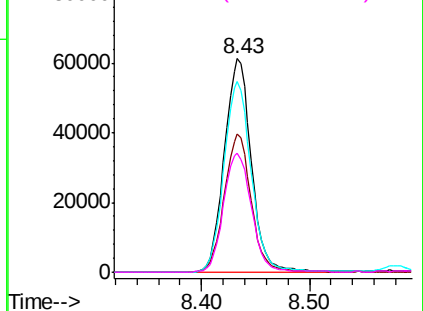
#45
 1,1,2-Trichloroethane
 Concen: 5.102 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion:	97	Resp:	107003
Ion	Ratio	Lower	Upper
97	100		
99	65.0	45.0	83.6
83	89.4	62.1	115.3
85	55.6	41.4	77.0

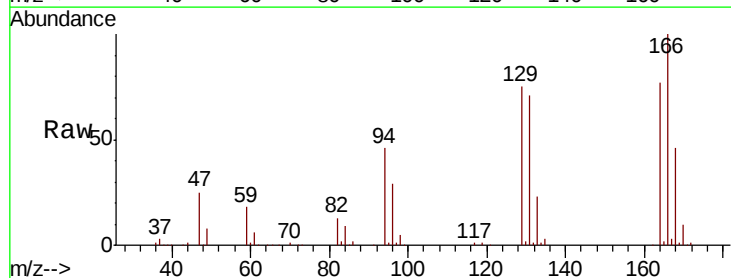


Abundance Ion 96.95 (96.65 to 97.65): VU035939.D (-2114) (-)

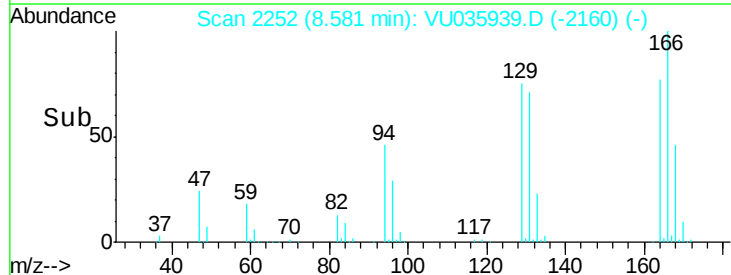
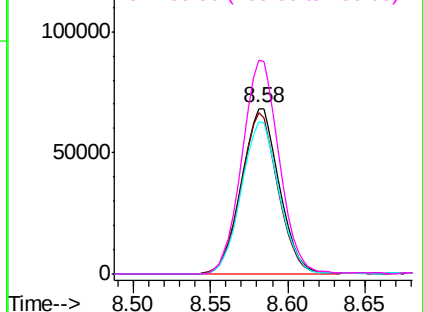


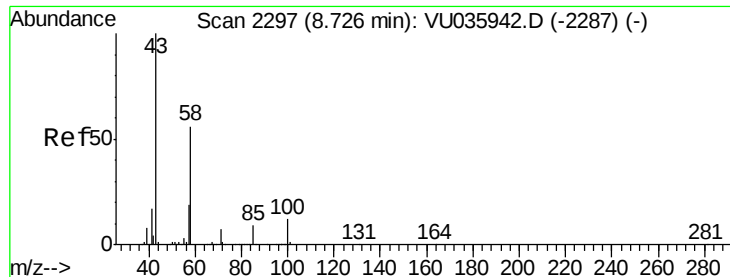
#47
 Tetrachloroethene
 Concen: 4.971 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Tgt Ion:	164	Resp:	116243
Ion	Ratio	Lower	Upper
164	100		
129	97.4	67.9	126.1
131	91.8	64.1	119.1
166	129.2	92.6	172.0



Abundance Ion 163.90 (163.60 to 164.60): VU035939.D (-2160) (-)

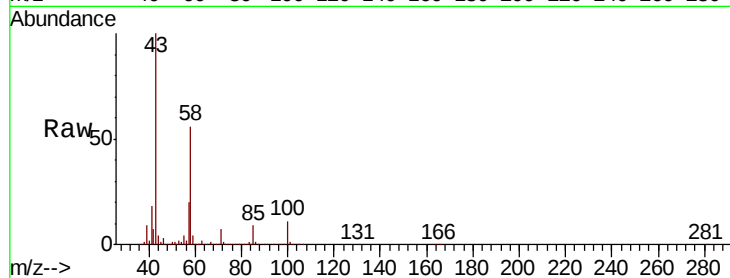




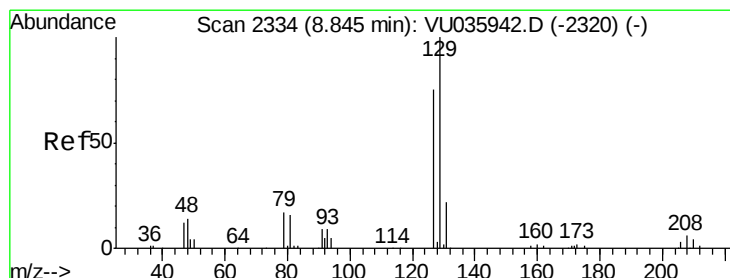
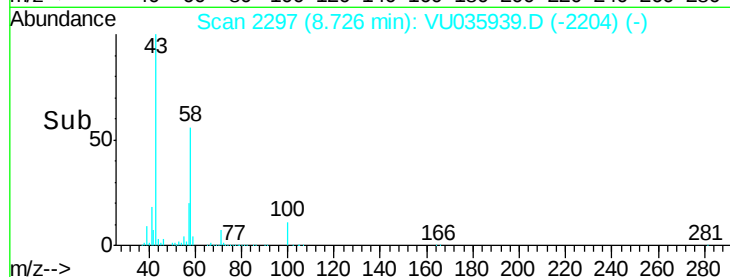
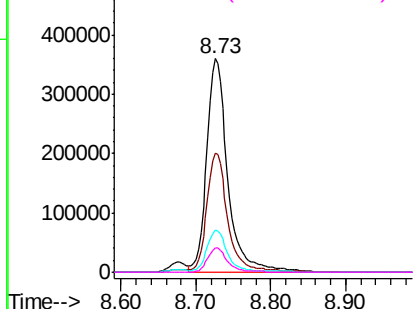
#48
2-Hexanone
Concen: 52.693 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tot Ion: 43 Resp: 704734
Ion Ratio Lower Upper
43 100
58 53.4 45.4 68.2
57 18.6 14.9 22.3
100 10.6 8.6 13.0

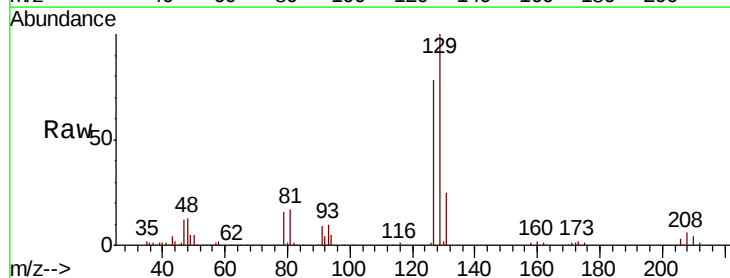


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

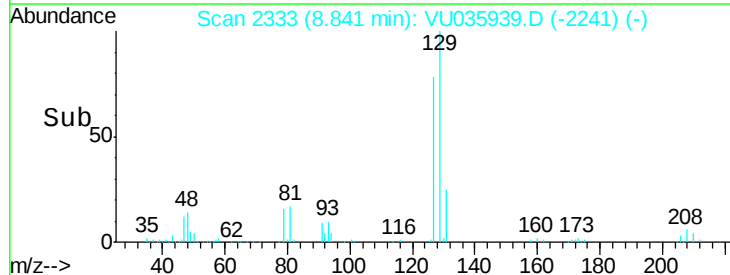
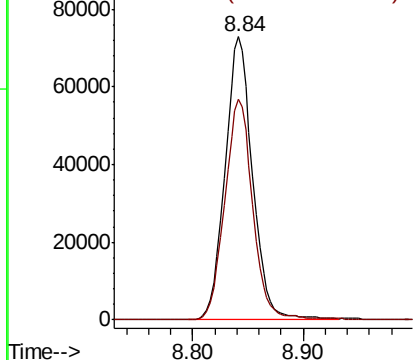


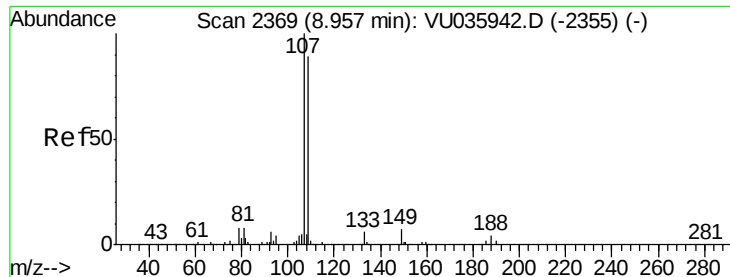
#49
Dibromochloromethane
Concen: 4.908 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Tgt Ion: 129 Resp: 125529
Ion Ratio Lower Upper
129 100
127 77.7 52.8 98.0



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

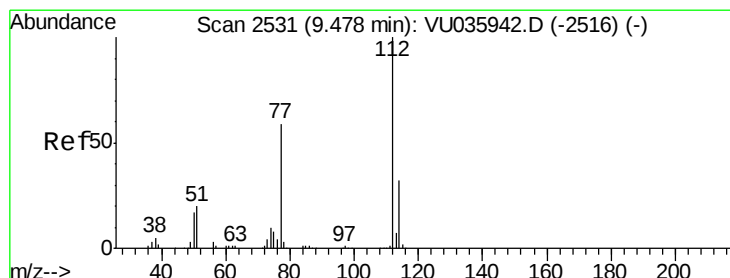
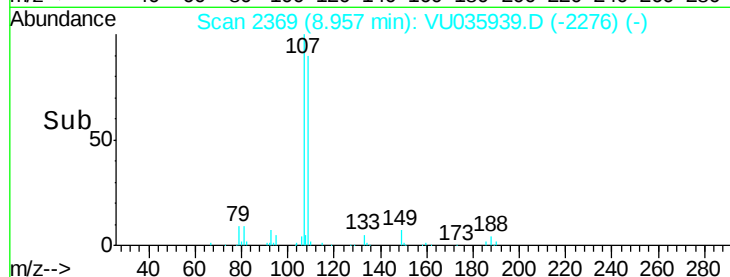
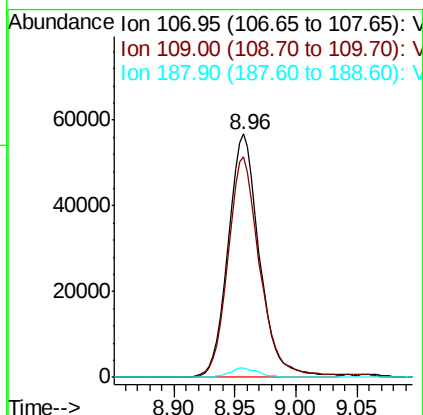
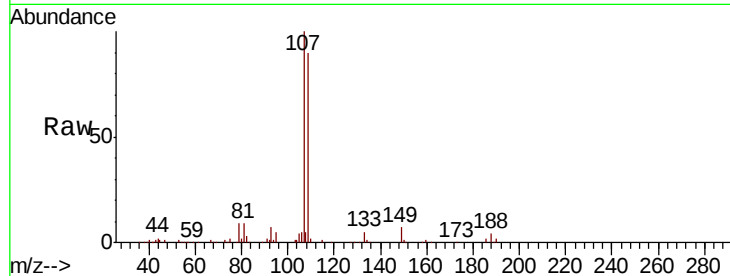




#50
1,2-Dibromoethane
Concen: 5.033 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

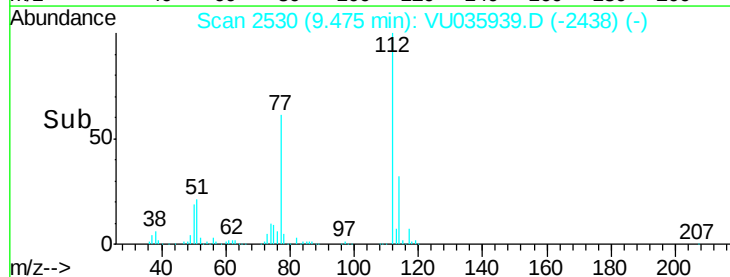
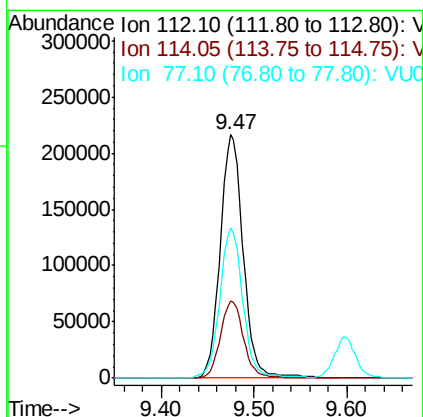
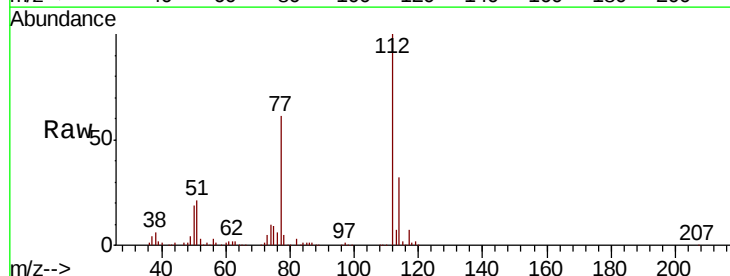
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

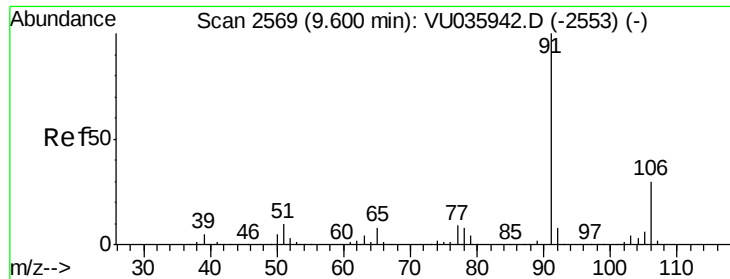
Tot Ion	Ratio	Lower	Upper
107	100		
109	90.4	62.5	116.1
188	3.7	3.0	4.6



#51
Chlorobenzene
Concen: 5.015 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.5	41.7
77	61.4	47.7	71.5





#52

Ethylbenzene

Concen: 5.078 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

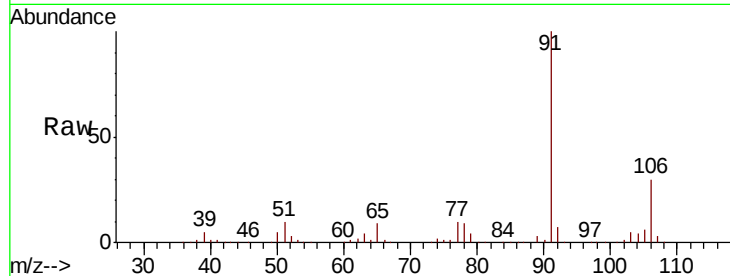
VSTD00519

Tot Ion: 91 Resp: 610055

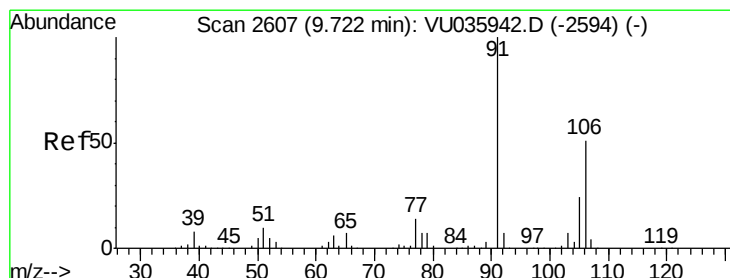
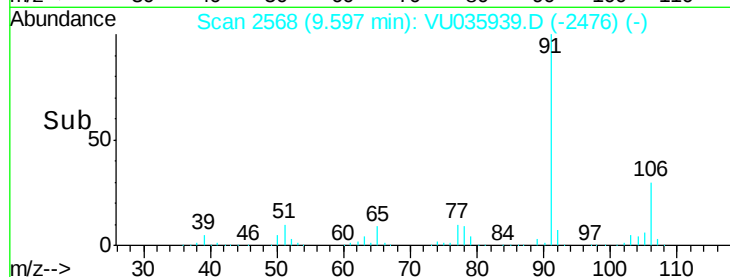
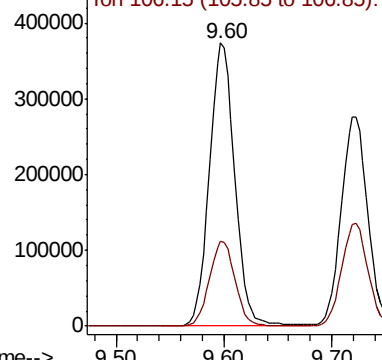
Ion Ratio Lower Upper

91 100

106 29.9 21.1 39.3



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



#53

m,p-Xylene

Concen: 5.103 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035939.D

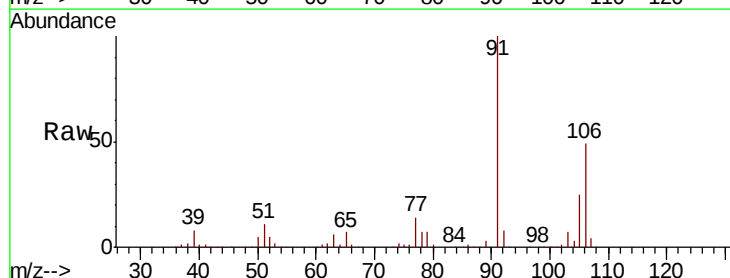
Acq: 03 Dec 2019 10:04

Tgt Ion: 106 Resp: 231401

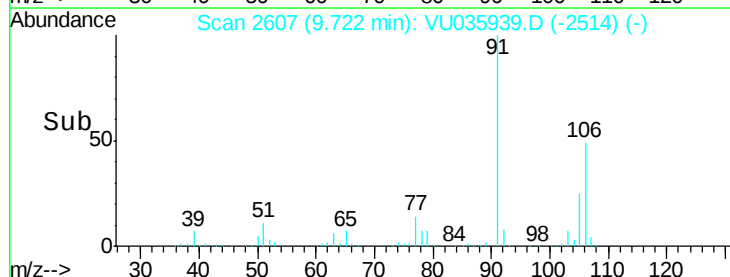
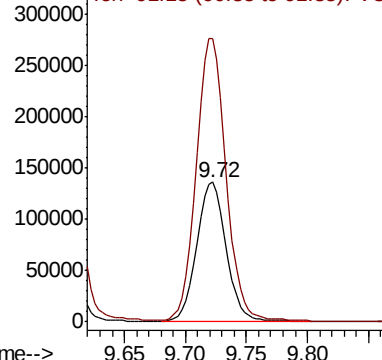
Ion Ratio Lower Upper

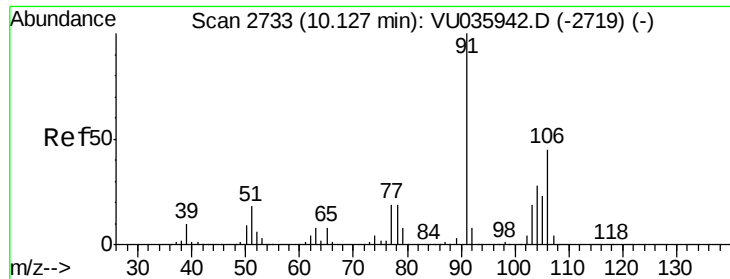
106 100

91 202.7 138.9 257.9



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

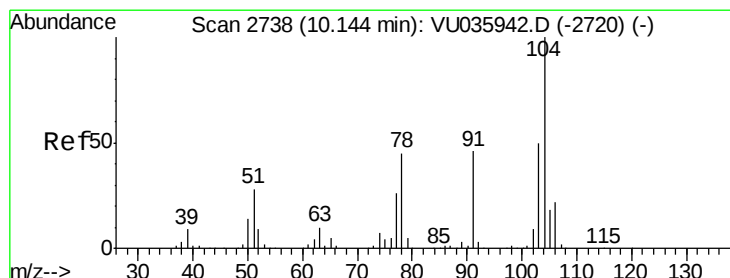
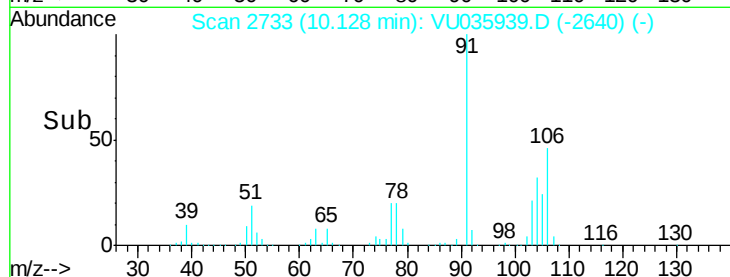
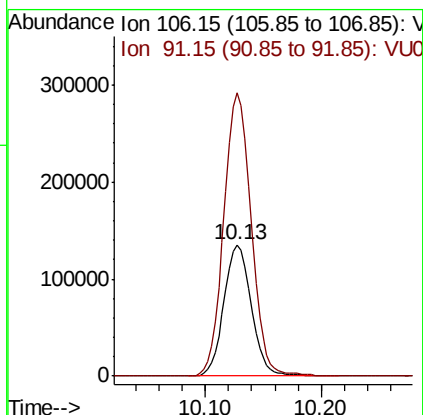
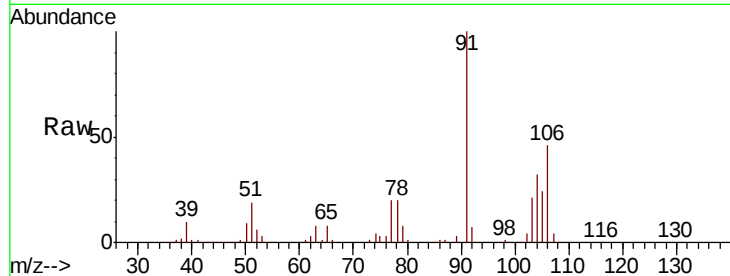




#54
o-Xylene
Concen: 5.208 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

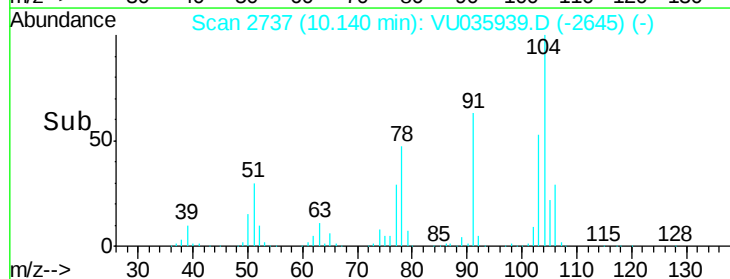
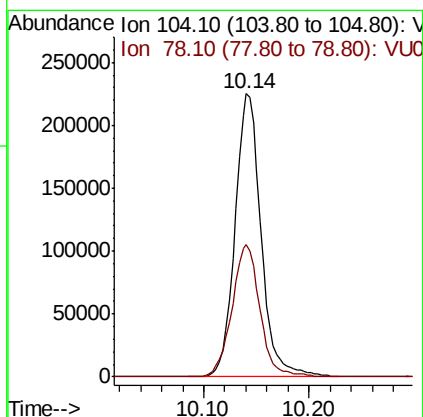
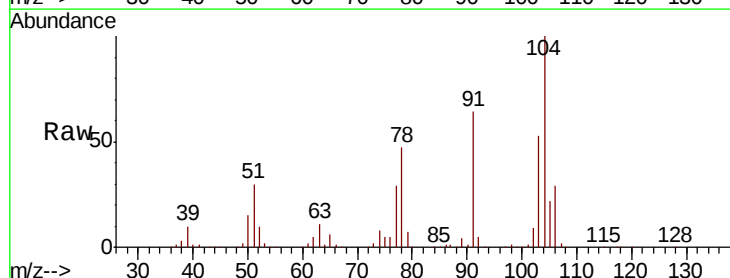
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

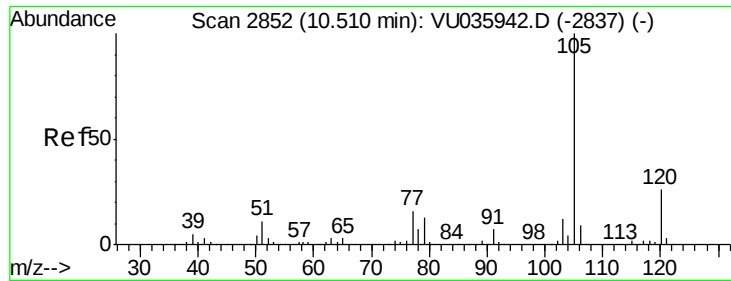
Tot Ion:106 Resp: 221647
Ion Ratio Lower Upper
106 100
91 215.1 155.3 288.3



#55
Styrene
Concen: 5.373 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU035939.D
Acq: 03 Dec 2019 10:04

Tgt Ion:104 Resp: 384538
Ion Ratio Lower Upper
104 100
78 46.9 31.2 58.0





#56

Isopropylbenzene

Concen: 5.178 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

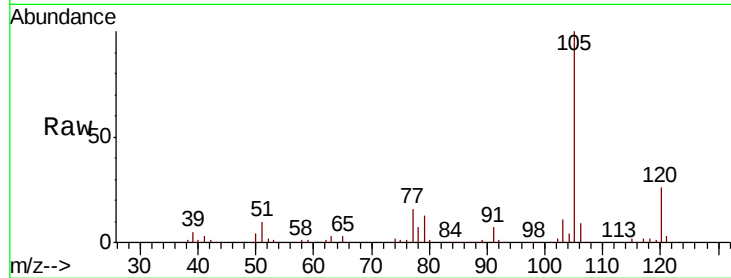
Tot Ion:105 Resp: 577599

Ion Ratio Lower Upper

105 100

120 26.1 21.3 31.9

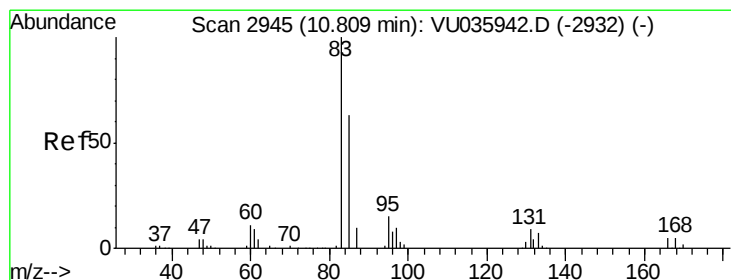
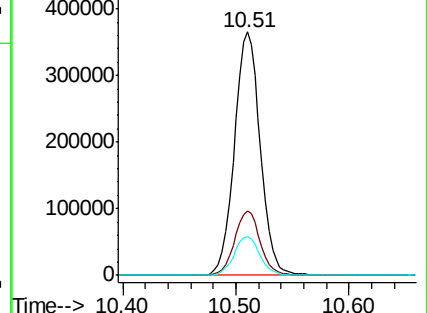
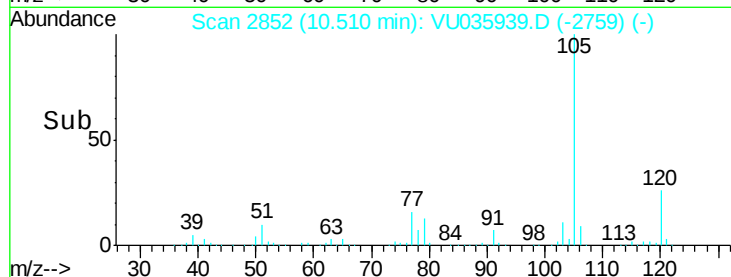
77 16.2 13.1 19.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.902 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

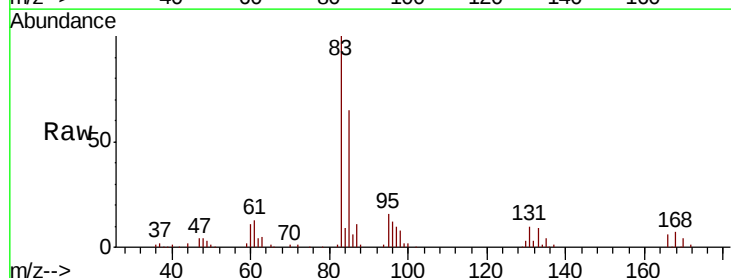
Tgt Ion: 83 Resp: 137968

Ion Ratio Lower Upper

83 100

85 65.0 44.3 82.3

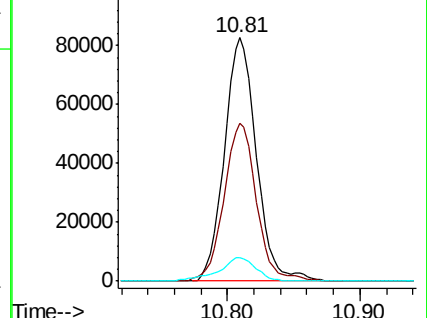
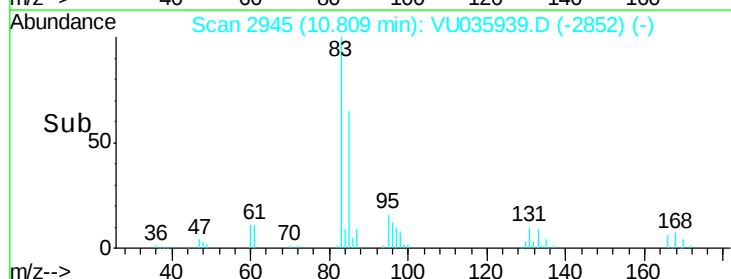
131 9.9 7.2 10.8

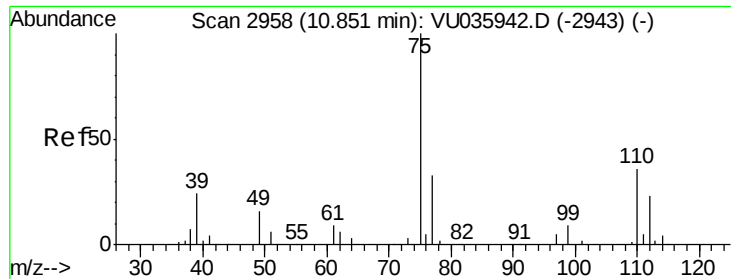


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V

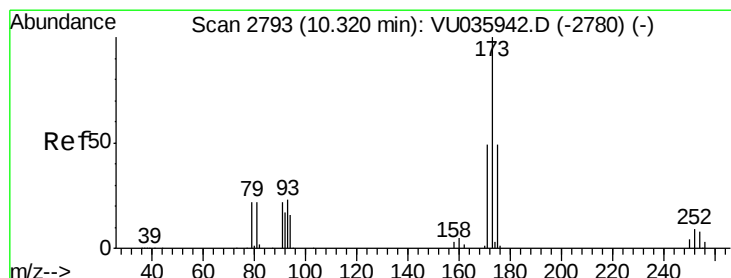
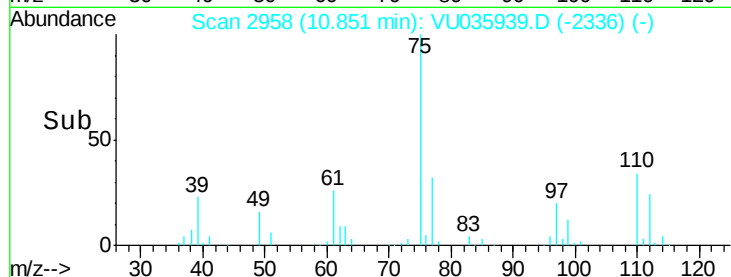
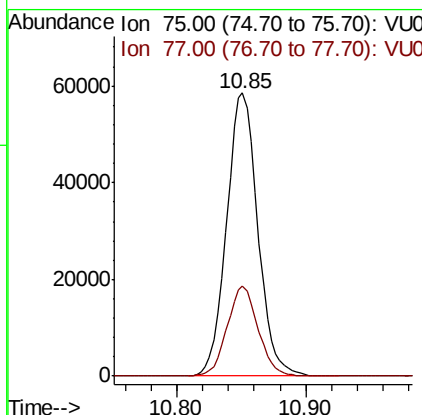
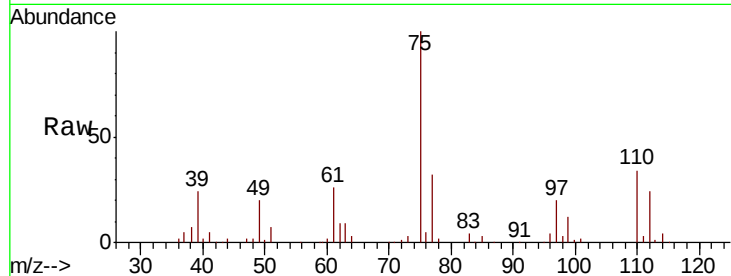




#59
 1,2,3-Trichloropropane
 Concen: 4.906 ug/L
 RT: 10.85 min Scan# 2958
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

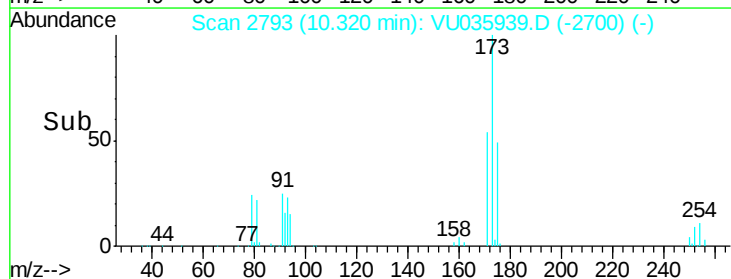
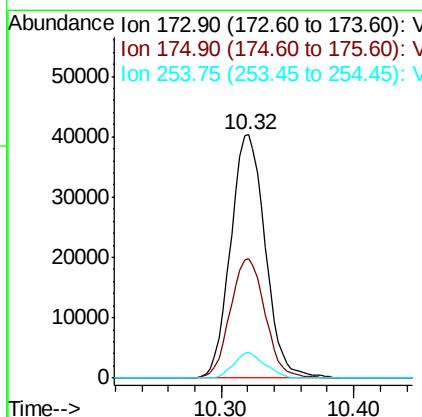
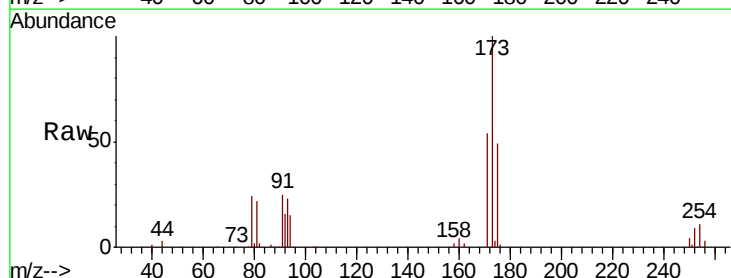
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

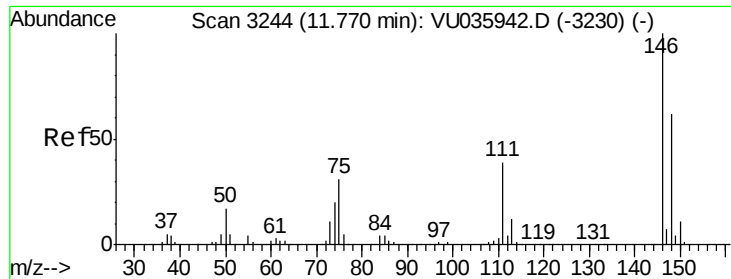
Tot Ion: 75 Resp: 98239
 Ion Ratio Lower Upper
 75 100
 77 31.5 26.6 39.8



#61
 Bromoform
 Concen: 4.526 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Tgt Ion: 173 Resp: 73384
 Ion Ratio Lower Upper
 173 100
 175 49.2 39.3 58.9
 254 9.4 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 4.934 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

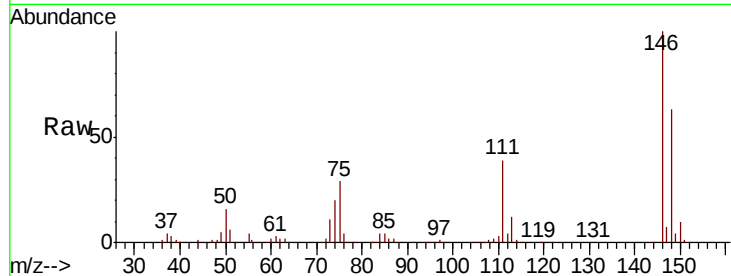
Tot Ion:146 Resp: 288035

Ion Ratio Lower Upper

146 100

111 38.5 27.6 51.4

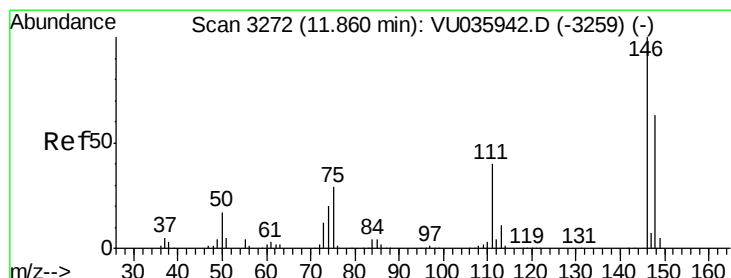
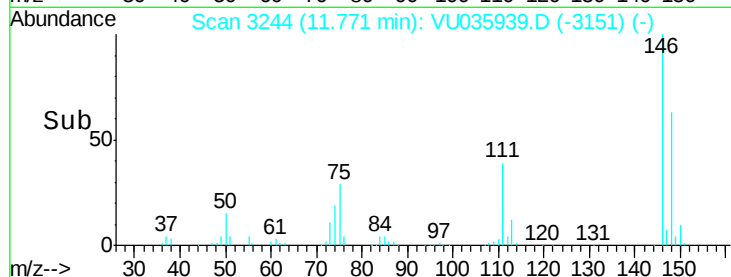
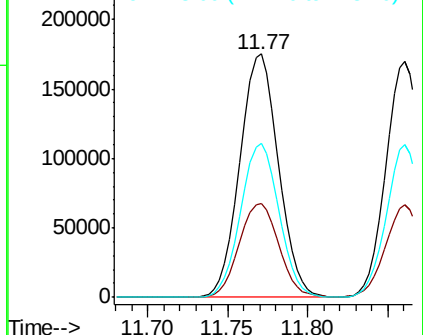
148 63.3 43.4 80.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.780 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

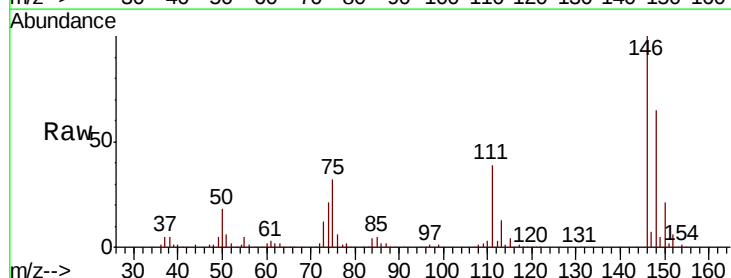
Tgt Ion:146 Resp: 276992

Ion Ratio Lower Upper

146 100

111 39.2 28.5 52.9

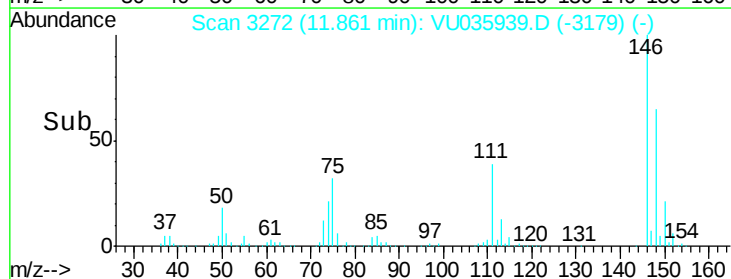
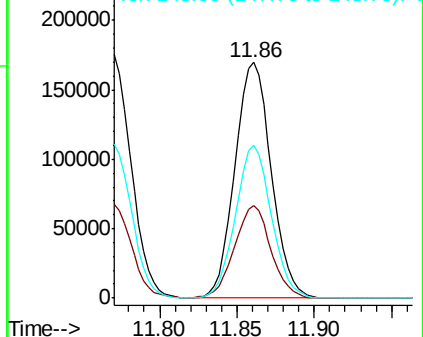
148 65.0 44.4 82.5

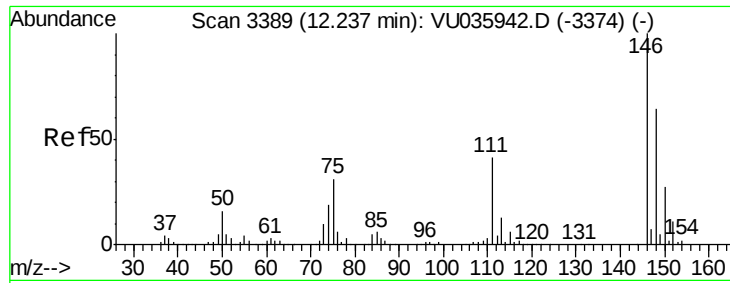


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

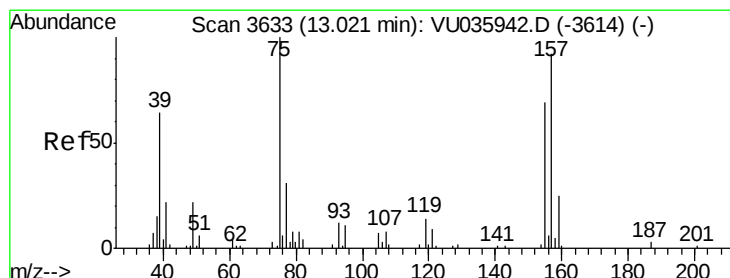
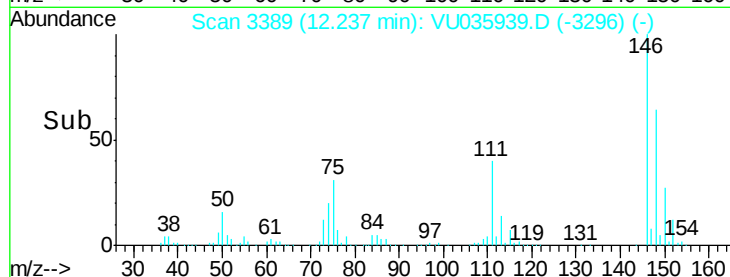
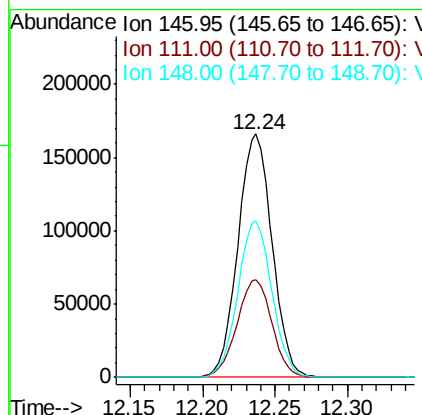
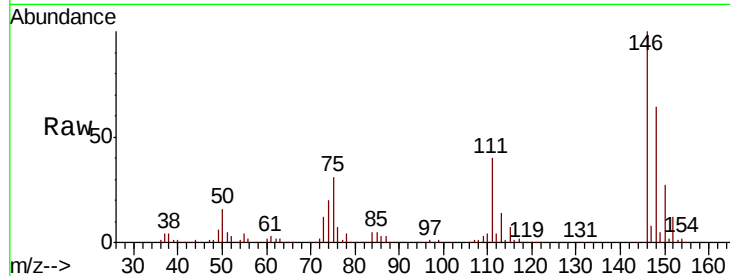




#65
 1,2-Dichlorobenzene
 Concen: 4.872 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

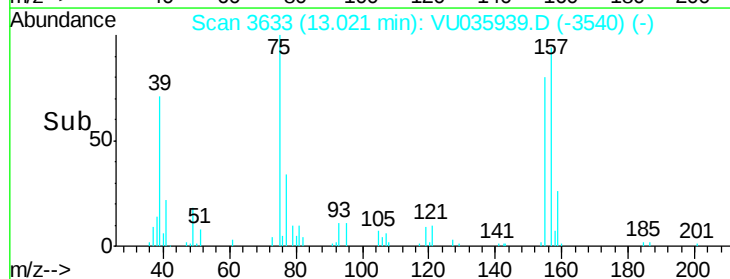
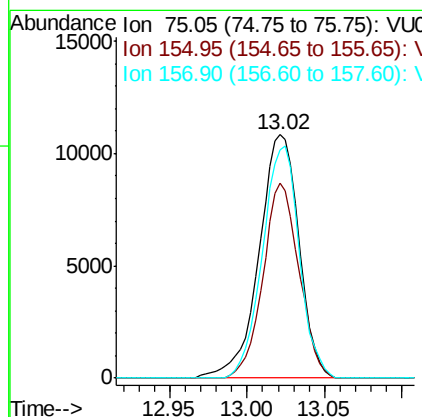
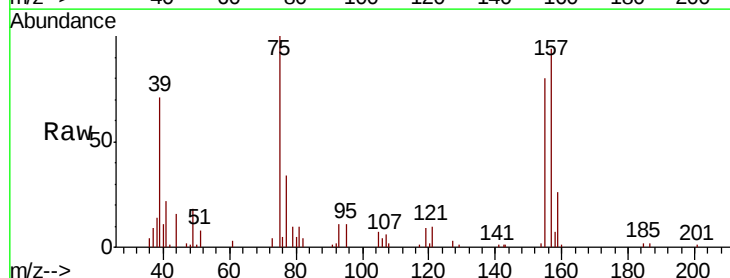
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

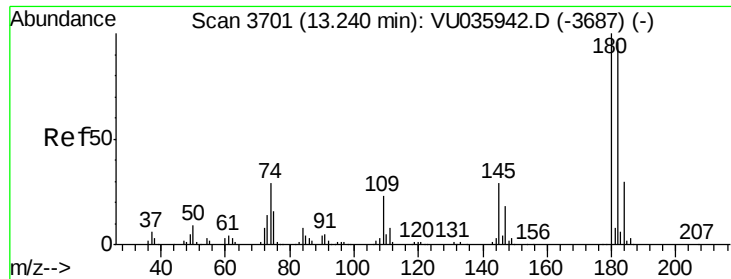
Tot Ion:146 Resp: 271858
 Ion Ratio Lower Upper
 146 100
 111 40.1 32.6 48.8
 148 64.4 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.466 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Tgt Ion: 75 Resp: 19413
 Ion Ratio Lower Upper
 75 100
 155 80.2 55.1 82.7
 157 93.6 74.0 111.0

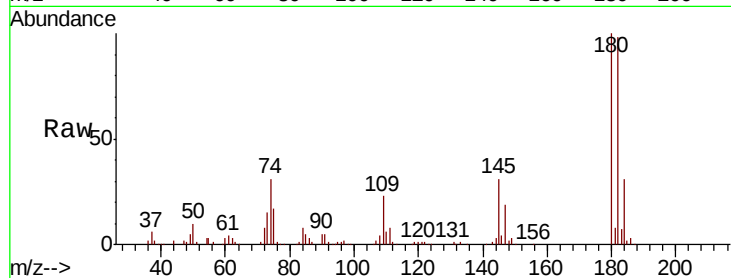




#67
 1,3,5-Trichlorobenzene
 Concen: 4.717 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.2	115.8
184	30.9	24.5	36.7
145	29.3	23.0	34.6



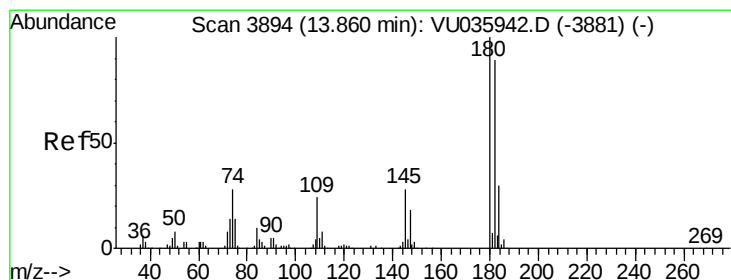
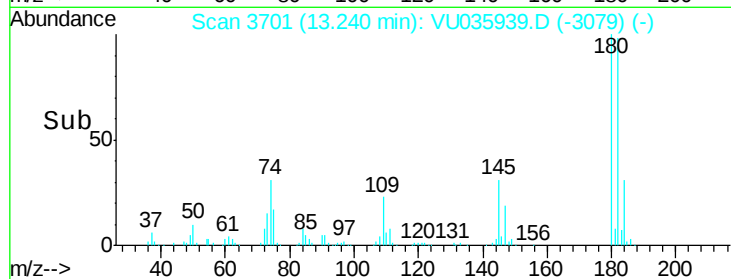
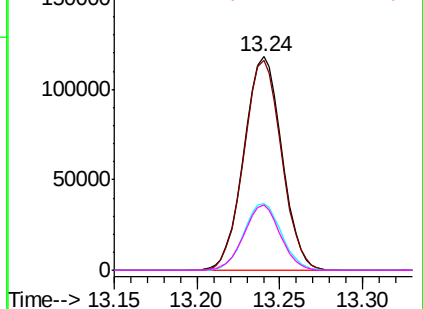
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

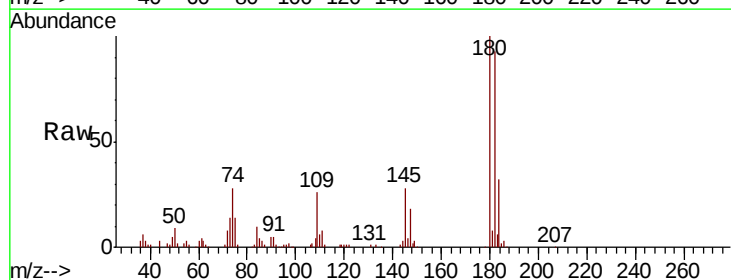
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.642 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU035939.D
 Acq: 03 Dec 2019 10:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.5	111.7
145	28.1	23.4	35.0

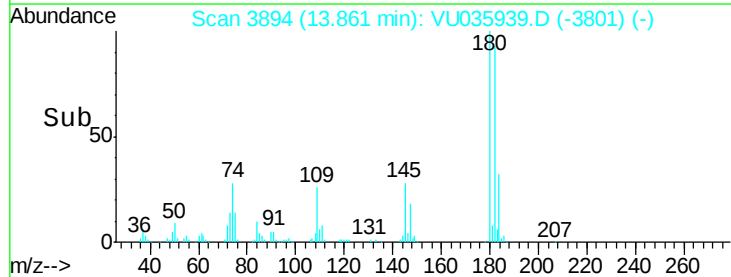
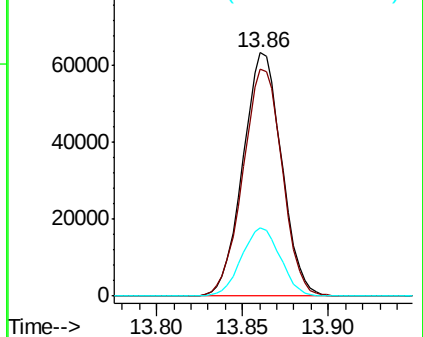


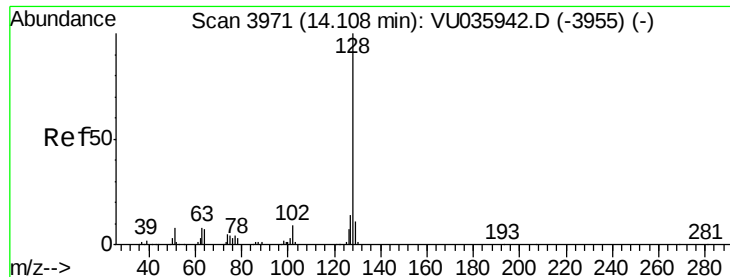
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.688 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

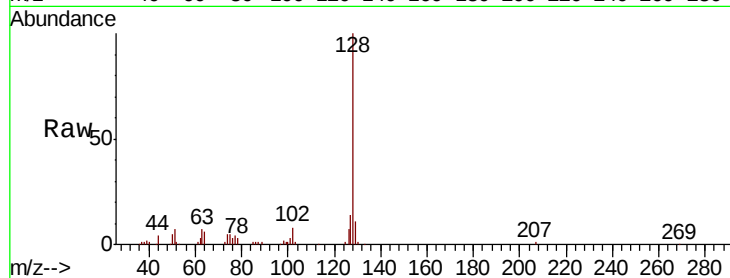
Tot Ion:128 Resp: 89697

Ion Ratio Lower Upper

128 100

129 10.6 8.4 12.6

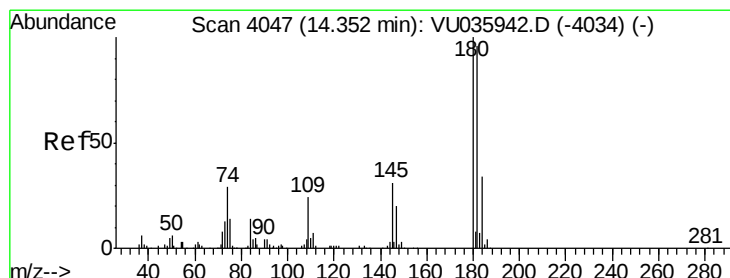
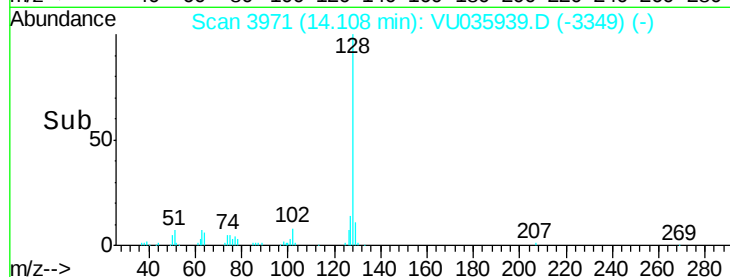
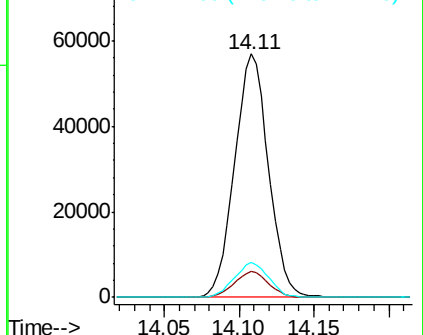
127 14.6 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.472 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035939.D

Acq: 03 Dec 2019 10:04

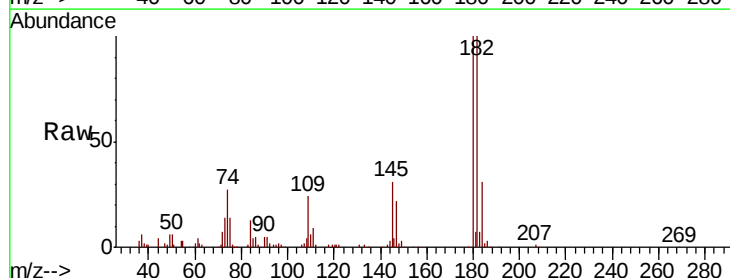
Tgt Ion:180 Resp: 94562

Ion Ratio Lower Upper

180 100

182 96.2 74.6 112.0

145 31.2 24.3 36.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

