

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121319\
 Data File : VU036197.D
 Acq On : 13 Dec 2019 14:59
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Quant Time: Dec 14 01:15:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 14 01:03:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	297442	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	306746	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	161749	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	127943	4.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.60%
7) Chloroethane-d5	1.93	69	113915	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.00%
11) 1,1-Dichloroethene-d2	2.59	63	187606	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	4.70	46	253994	51.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.52%
24) Chloroform-d	5.11	84	203464	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.75	65	104108	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	5.77	84	391129	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
36) 1,2-Dichloropropane-d6	6.73	67	120972	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.93	98	380544	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
43) trans-1,3-Dichloropropene-	8.21	79	53931	5.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.00%
46) 2-Hexanone-d5	8.67	63	213015	55.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.46%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	109519	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	153300	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	156389	4.711 ug/L	97
3) Chloromethane	1.54	50	186375	4.474 ug/L	98
5) Vinyl chloride	1.62	62	189287	4.789 ug/L	97
6) Bromomethane	1.87	94	97458	4.935 ug/L	94
8) Chloroethane	1.95	64	112057	4.748 ug/L	99
9) Trichlorofluoromethane	2.16	101	234856	4.715 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	114740	4.808 ug/L	98
12) 1,1-Dichloroethene	2.61	96	107203	4.858 ug/L	97
13) Acetone	2.68	43	177810	41.578 ug/L	99
14) Carbon disulfide	2.82	76	349053	4.715 ug/L	99
15) Methyl Acetate	3.00	43	40023	4.632 ug/L	96
16) Methylene chloride	3.08	84	129290	3.986 ug/L	98
17) Methyl tert-butyl Ether	3.42	73	237888	5.030 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	114368	4.949 ug/L	95
19) 1,1-Dichloroethane	3.92	63	201382	4.720 ug/L	97
21) 2-Butanone	4.77	43	281082	49.186 ug/L	99
22) cis-1,2-Dichloroethene	4.72	96	121263	4.892 ug/L	95

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 Misc : 25.0mL/MSVOA U/WATER
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 ClientSampleId :
 VSTD00513

Quant Time: Dec 14 01:15:29 2019
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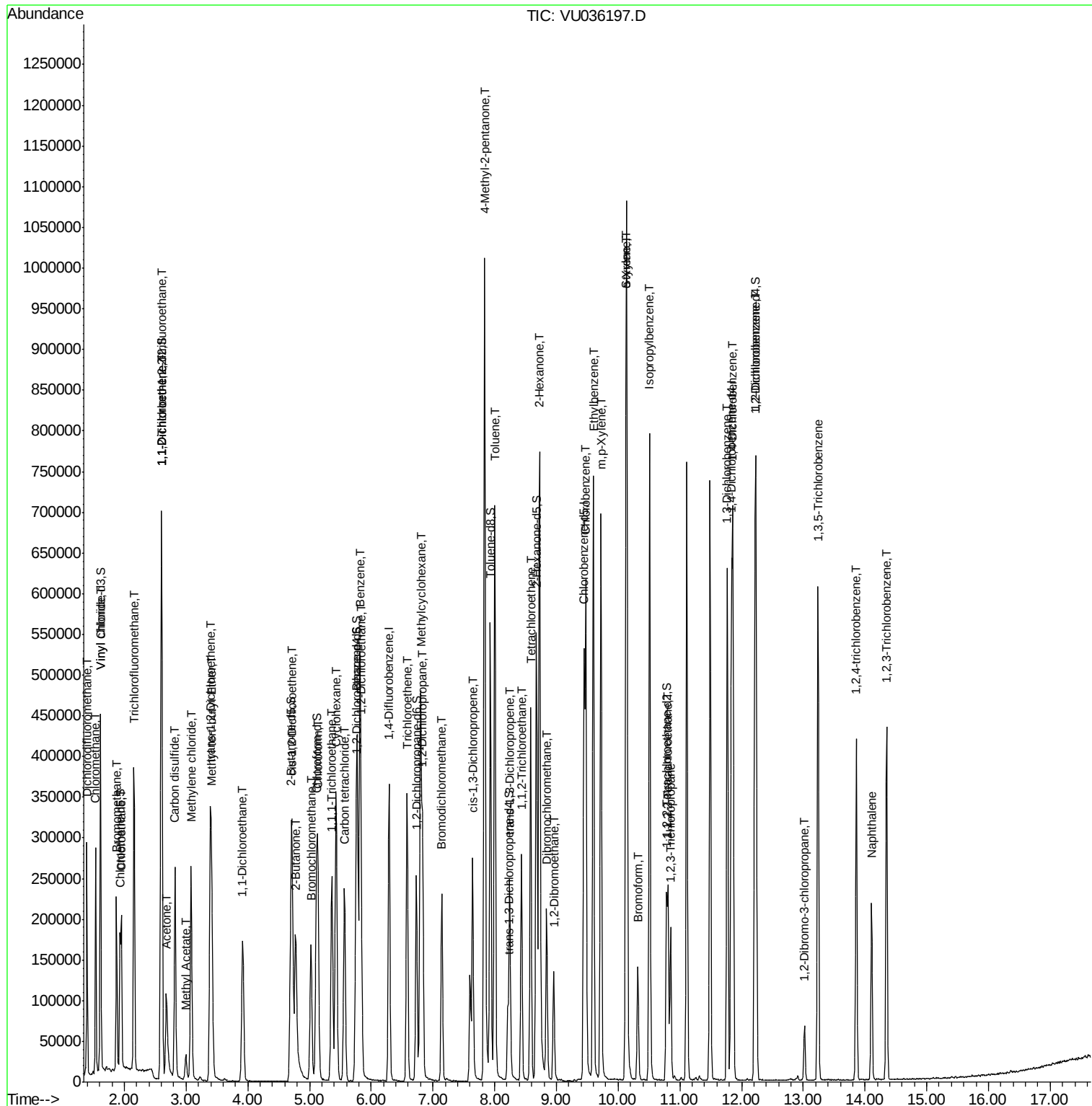
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	57340	4.781	ug/L	99
25) Chloroform	5.14	83	214486	4.647	ug/L	95
27) 1,2-Dichloroethane	5.84	62	132828	4.852	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	182636	4.836	ug/L	98
30) Cyclohexane	5.43	56	168273	5.237	ug/L	99
31) Carbon tetrachloride	5.57	117	162733	4.726	ug/L	99
33) Benzene	5.82	78	474173	5.030	ug/L	100
34) Trichloroethene	6.58	95	118402	4.872	ug/L	95
35) Methylcyclohexane	6.80	83	178750	5.173	ug/L	99
37) 1,2-Dichloropropane	6.83	63	119478	4.968	ug/L	97
38) Bromodichloromethane	7.14	83	150624	4.812	ug/L	100
39) cis-1,3-Dichloropropene	7.65	75	169949	5.186	ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	663429	52.736	ug/L	99
42) Toluene	8.00	91	522896	5.175	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	142520	5.178	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	87375	4.848	ug/L	95
47) Tetrachloroethene	8.58	164	107919	4.917	ug/L	95
48) 2-Hexanone	8.73	43	505108	53.801	ug/L	98
49) Dibromochloromethane	8.84	129	110043	4.940	ug/L	94
50) 1,2-Dibromoethane	8.96	107	85907	4.998	ug/L	100
51) Chlorobenzene	9.48	112	331281	4.965	ug/L	98
52) Ethylbenzene	9.60	91	529753	5.220	ug/L	100
53) m,p-Xylene	9.72	106	204986	5.242	ug/L	100
54) o-Xylene	10.13	106	197896	5.247	ug/L	94
55) Styrene	10.14	104	348638	5.224	ug/L	99
56) Isopropylbenzene	10.51	105	512275	5.289	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	113695	4.955	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	81390	5.092	ug/L	97
61) Bromoform	10.32	173	66580	4.742	ug/L	98
62) 1,3-Dichlorobenzene	11.77	146	277218	5.080	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	275053	5.082	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	259785	4.997	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	16646	4.820	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	200890	4.913	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	138010	5.138	ug/L	98
69) Naphthalene	14.11	128	174924	5.119	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	140198	5.397	ug/L	99

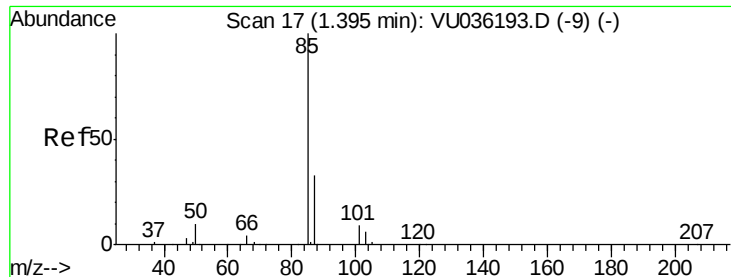
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 13 Dec 2019 14:59
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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

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#2

Dichlorodifluoromethane

Concen: 4.711 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

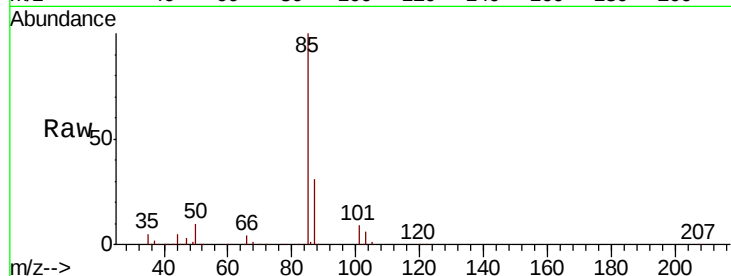
VSTD00513

Tot Ion: 85 Resp: 156389

Ion Ratio Lower Upper

85 100

87 31.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036197.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036197.D (-9) (-)

1.39

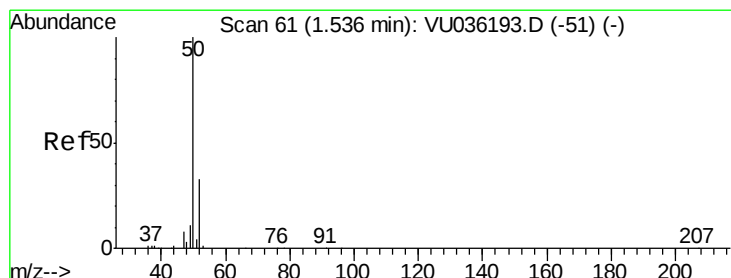
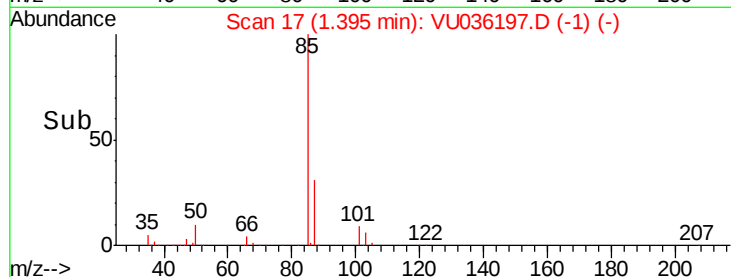
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.474 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036197.D

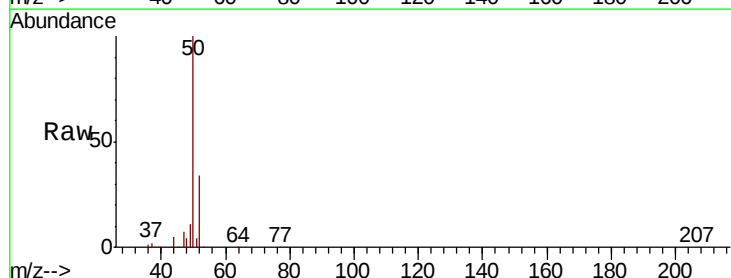
Acq: 13 Dec 2019 14:59

Tgt Ion: 50 Resp: 186375

Ion Ratio Lower Upper

50 100

52 33.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036197.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036197.D (-51) (-)

1.54

200000

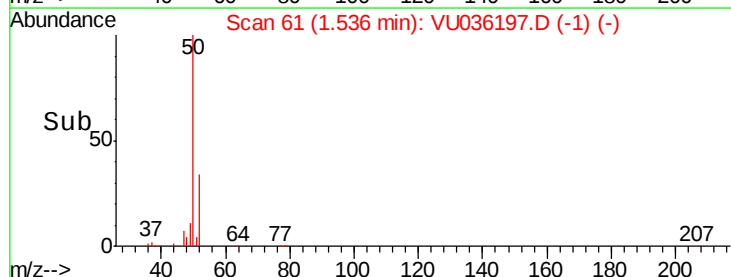
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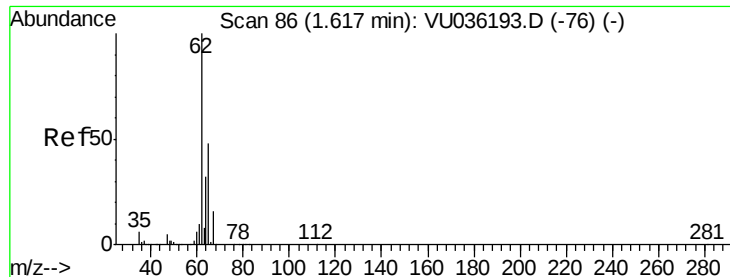
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.789 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

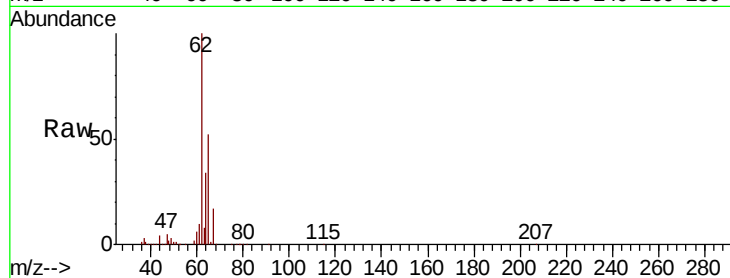
VSTD00513

Tot Ion: 62 Resp: 189287

Ion Ratio Lower Upper

62 100

64 33.5 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU036197.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU036197.D (-76) (-)

1.62

200000

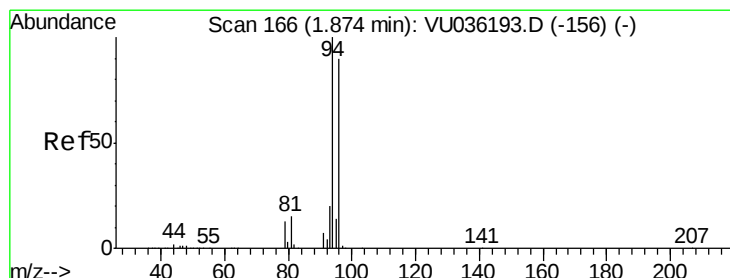
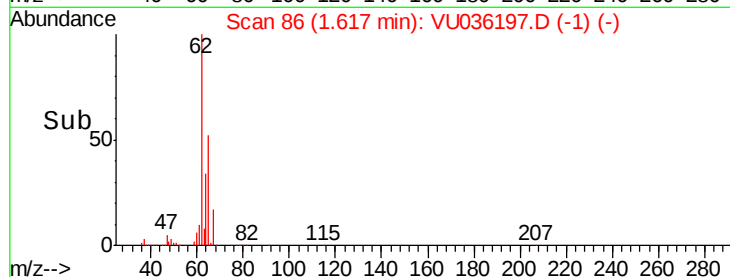
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 4.935 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036197.D

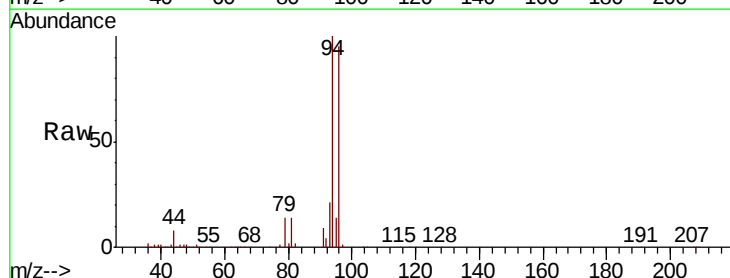
Acq: 13 Dec 2019 14:59

Tgt Ion: 94 Resp: 97458

Ion Ratio Lower Upper

94 100

96 95.1 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU036197.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU036197.D (-156) (-)

1.87

80000

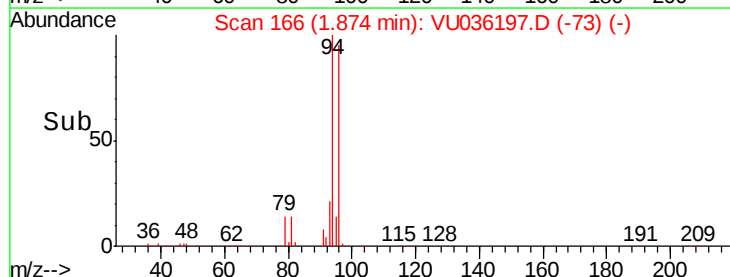
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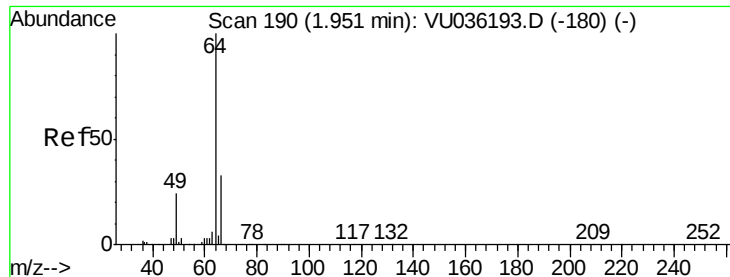
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20000

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Time-->

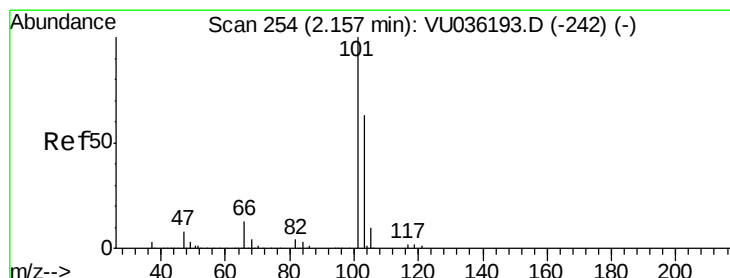
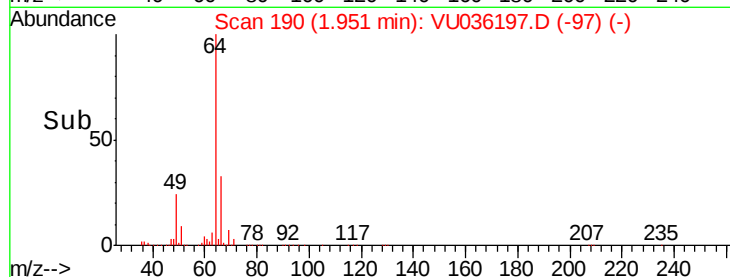
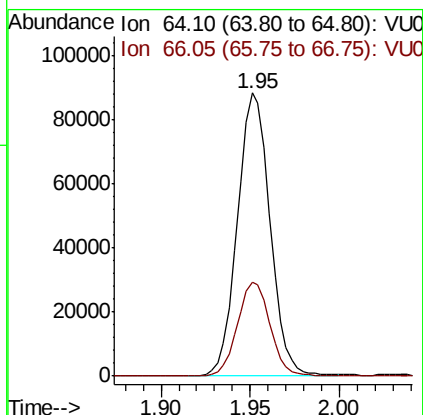
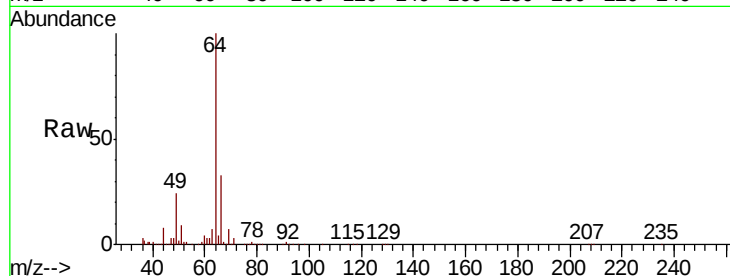




#8
Chloroethane
Concen: 4.748 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

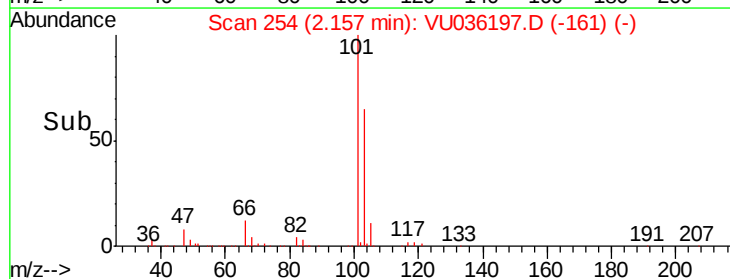
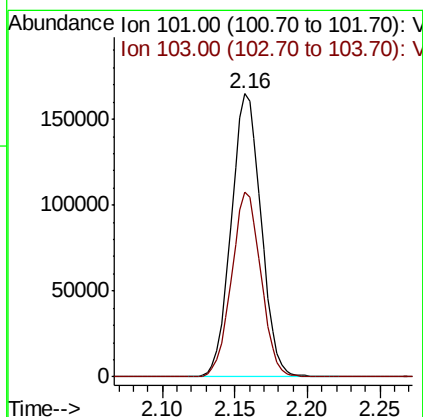
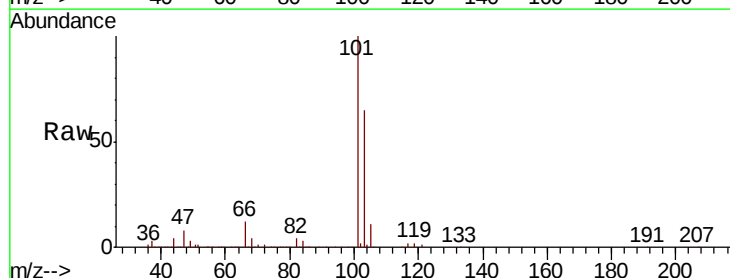
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

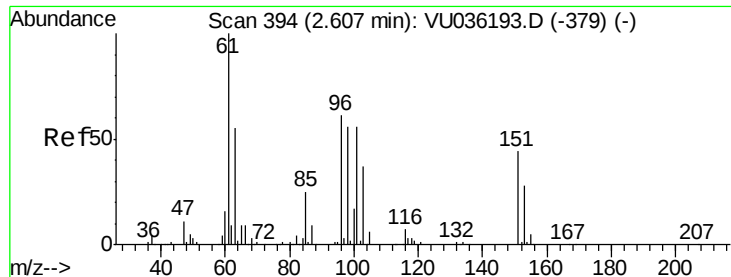
Tot Ion: 64 Resp: 112057
Ion Ratio Lower Upper
64 100
66 33.3 23.1 42.9



#9
Trichlorofluoromethane
Concen: 4.715 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

Tgt Ion: 101 Resp: 234856
Ion Ratio Lower Upper
101 100
103 64.0 50.4 75.6





#10

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

Concen: 4.808 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

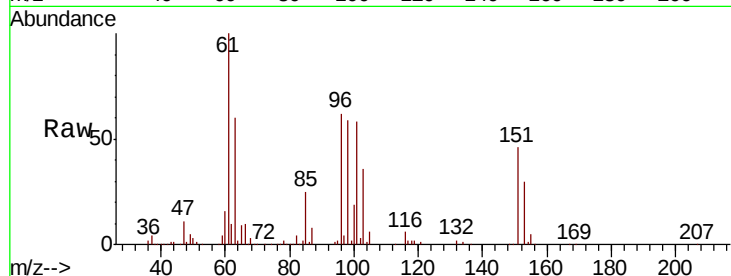
Tot Ion:101 Resp: 114740

Ion Ratio Lower Upper

101 100

85 42.7 35.0 52.6

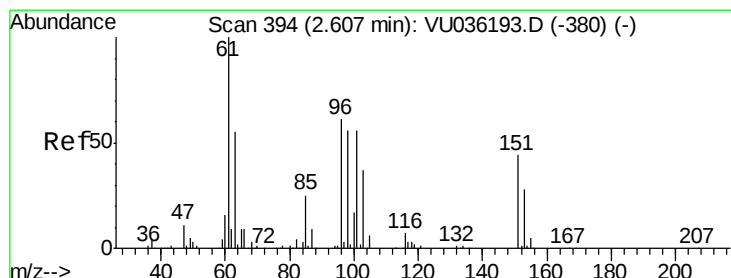
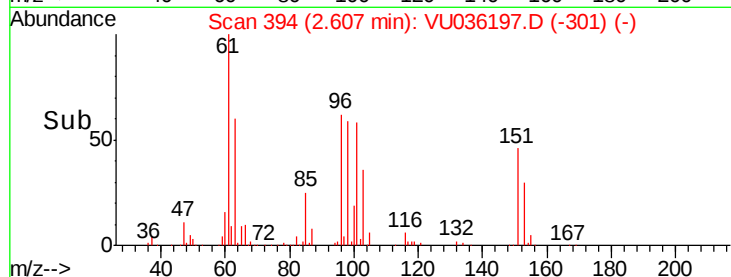
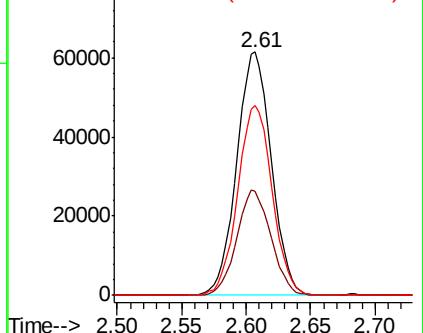
151 77.7 63.9 95.9



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: 4.858 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

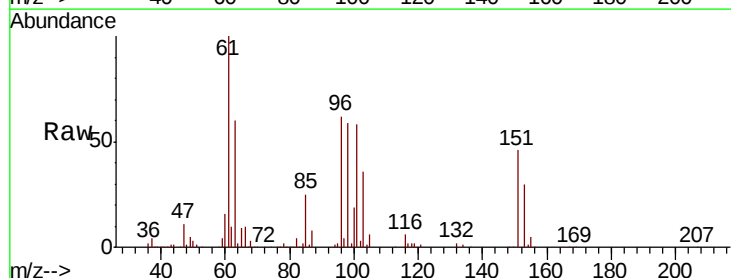
Tgt Ion: 96 Resp: 107203

Ion Ratio Lower Upper

96 100

61 161.9 114.0 211.8

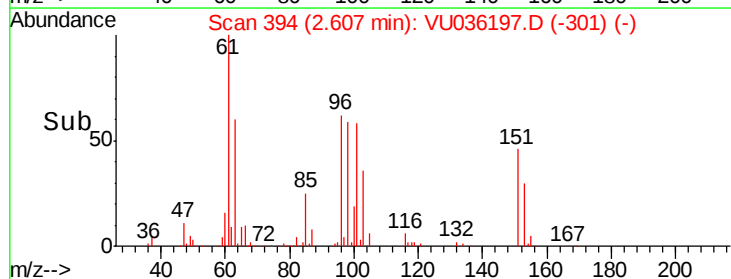
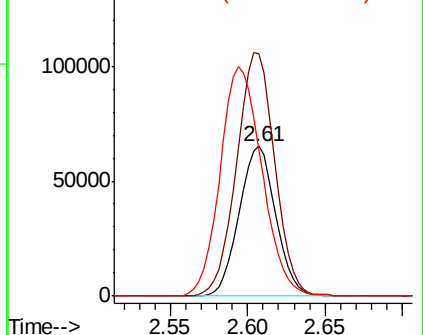
63 97.9 63.6 118.0

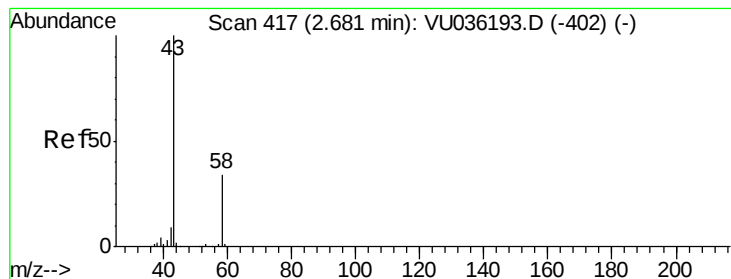


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.578 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

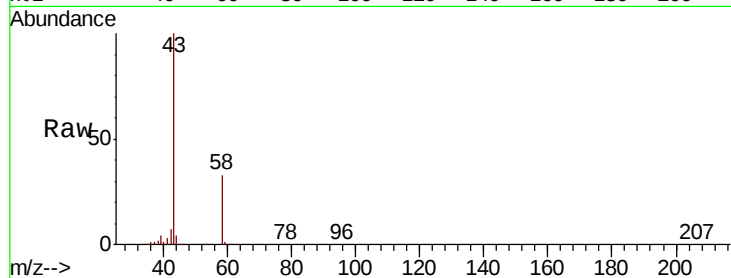
VSTD00513

Tot Ion: 43 Resp: 177810

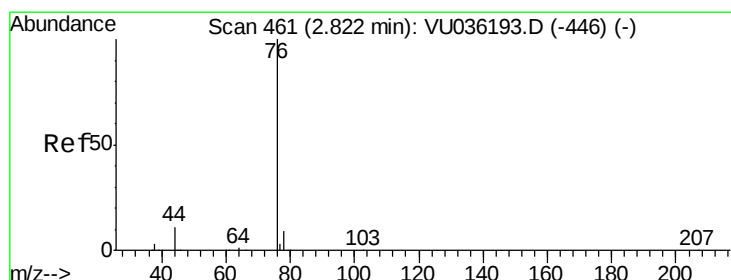
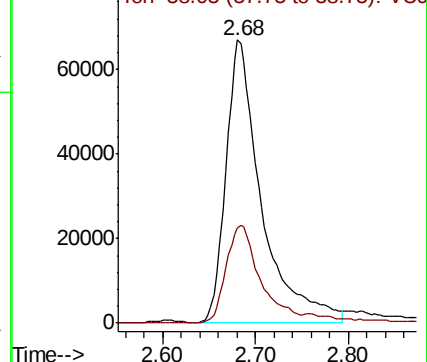
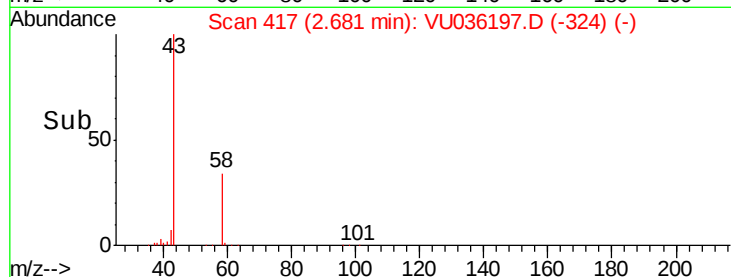
Ion Ratio Lower Upper

43 100

58 33.3 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036197.D (-324) (-)



#14

Carbon disulfide

Concen: 4.715 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036197.D

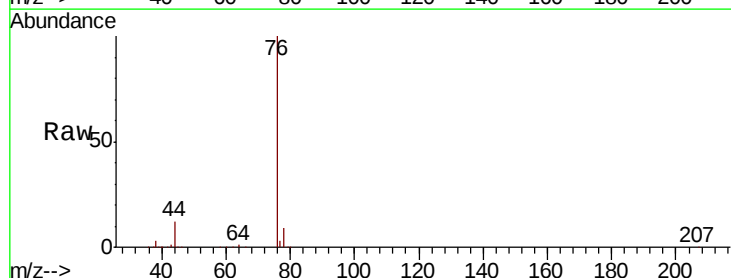
Acq: 13 Dec 2019 14:59

Tgt Ion: 76 Resp: 349053

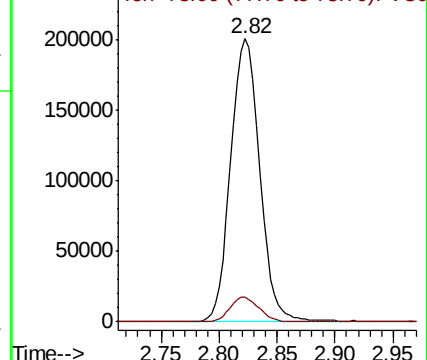
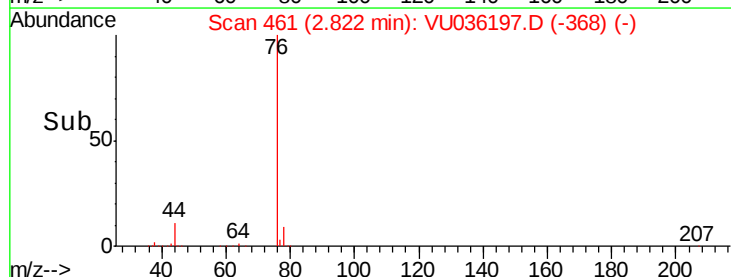
Ion Ratio Lower Upper

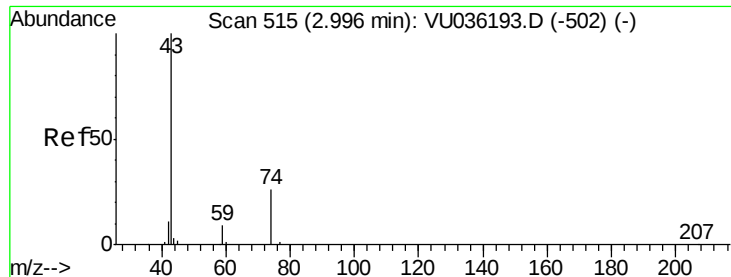
76 100

78 8.6 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036197.D (-368) (-)

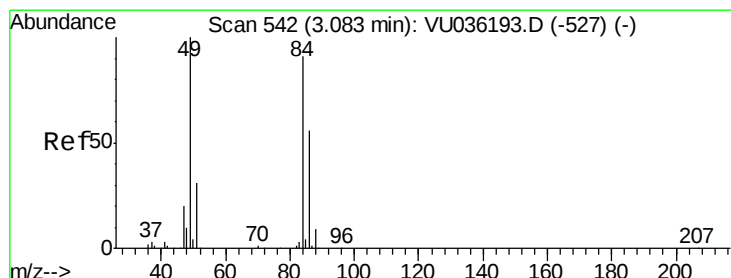
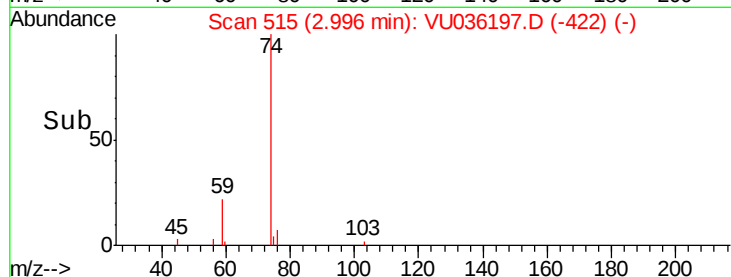
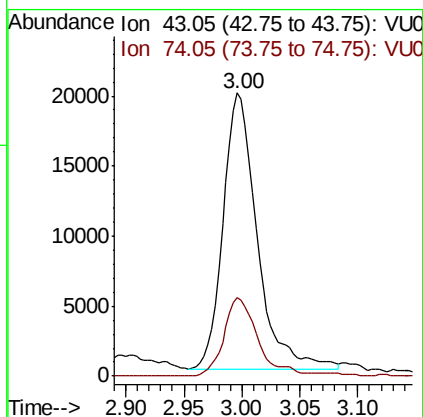
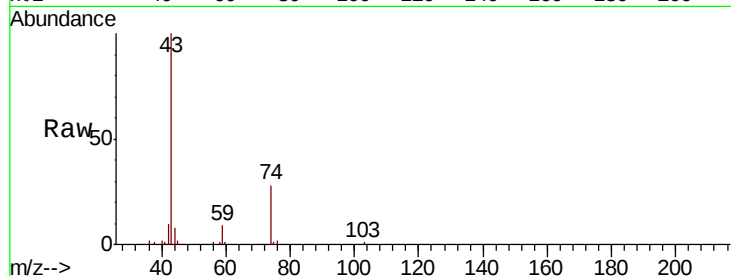




#15
Methvl Acetate
Concen: 4.632 ug/L
RT: 3.00 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

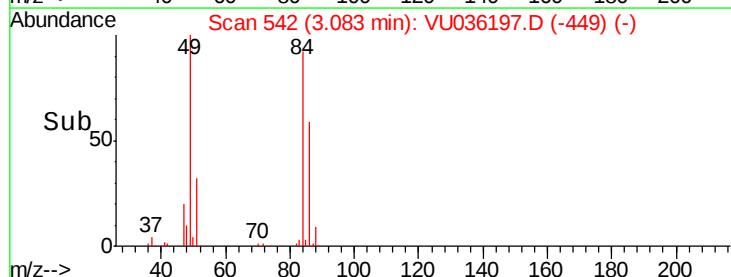
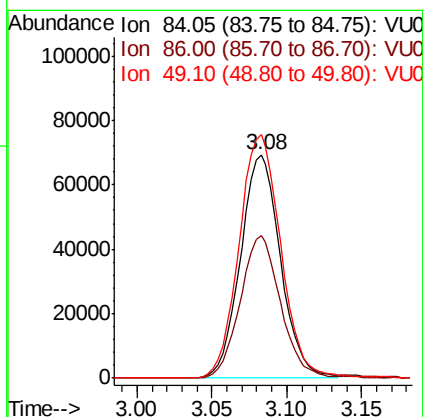
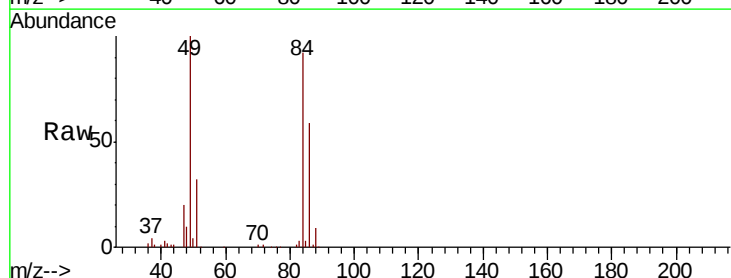
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

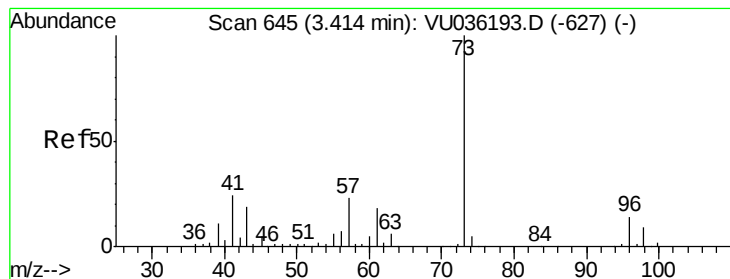
Tot Ion: 43 Resp: 40023
Ion Ratio Lower Upper
43 100
74 28.2 20.8 31.2



#16
Methylene chloride
Concen: 3.986 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

Tgt Ion: 84 Resp: 129290
Ion Ratio Lower Upper
84 100
86 64.0 43.0 79.8
49 109.0 77.3 143.5



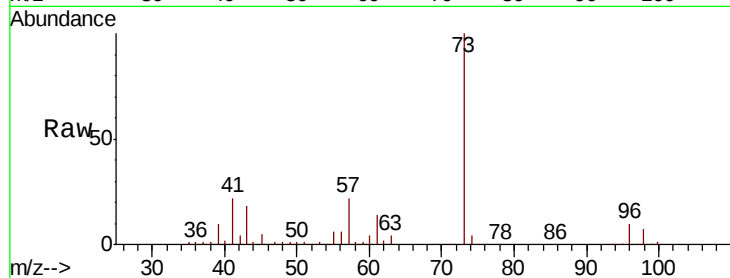


#17

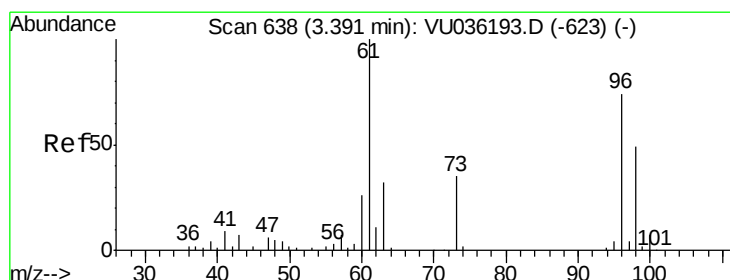
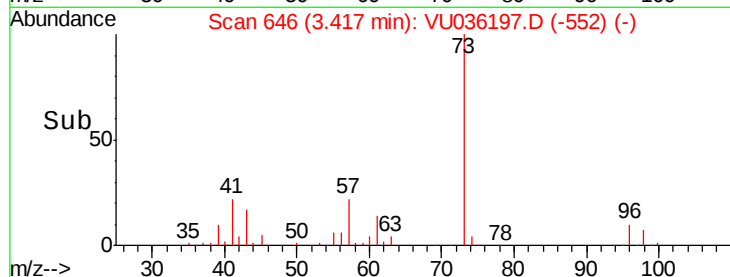
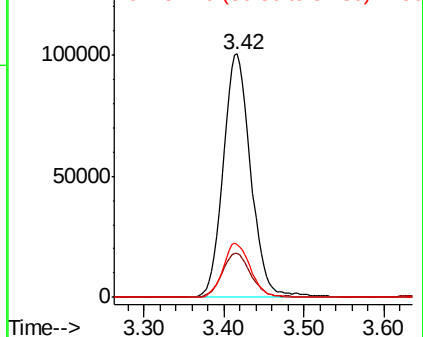
Methvl tert-butvl Ether
 Concen: 5.030 ug/L
 RT: 3.42 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion: 73 Resp: 237888
 Ion Ratio Lower Upper
 73 100
 43 18.5 15.3 22.9
 57 22.1 18.2 27.2



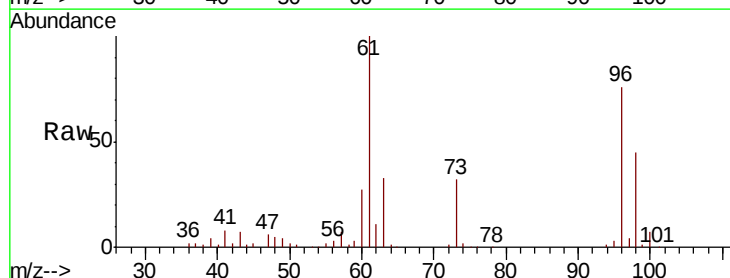
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



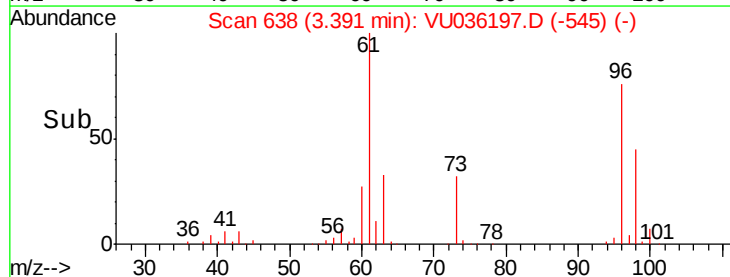
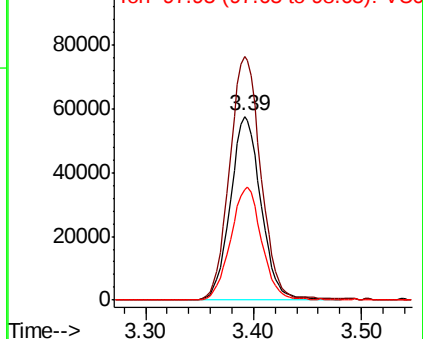
#18

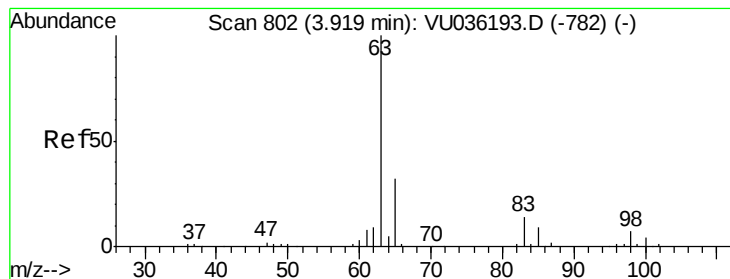
trans-1,2-Dichloroethene
 Concen: 4.949 ug/L
 RT: 3.39 min Scan# 638
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Tgt Ion: 96 Resp: 114368
 Ion Ratio Lower Upper
 96 100
 61 132.3 94.8 176.2
 98 59.9 46.8 86.8



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





#19

1,1-Dichloroethane

Concen: 4.720 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

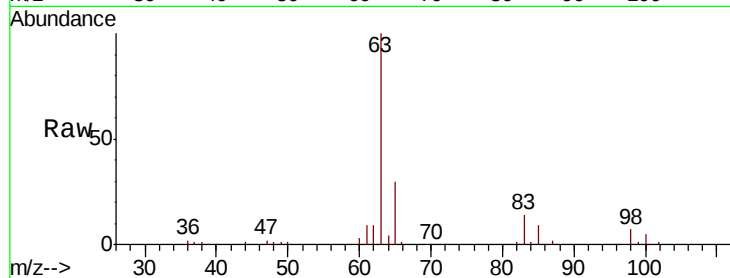
Tot Ion: 63 Resp: 201382

Ion Ratio Lower Upper

63 100

65 30.0 22.6 42.0

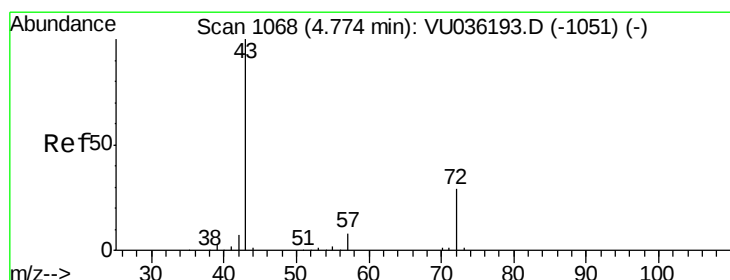
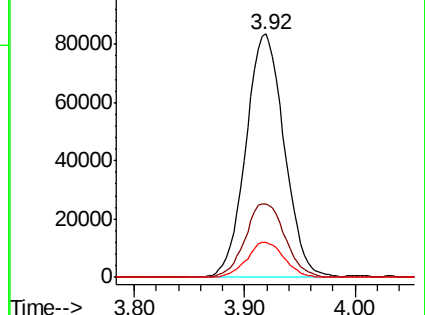
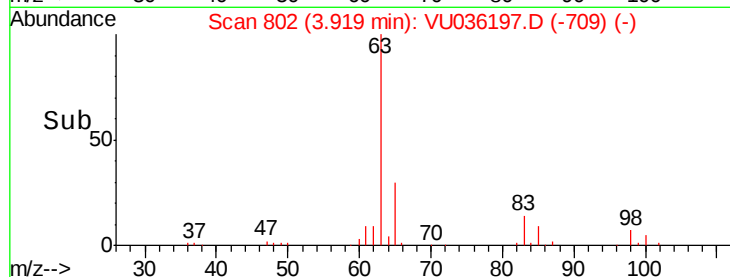
83 14.3 9.7 18.1



Abundance Ion 63.10 (62.80 to 63.80): VU036197.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU036197.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU036197.D (-709) (-)



#21

2-Butanone

Concen: 49.186 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU036197.D

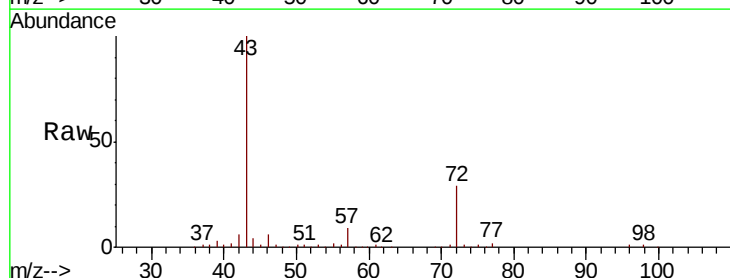
Acq: 13 Dec 2019 14:59

Tgt Ion: 43 Resp: 281082

Ion Ratio Lower Upper

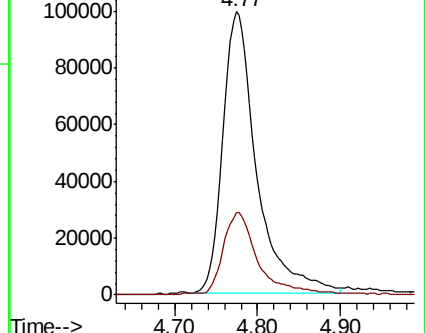
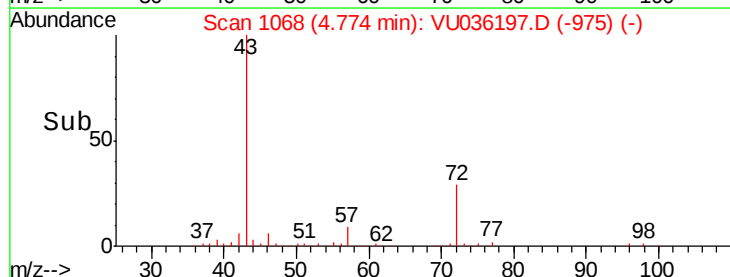
43 100

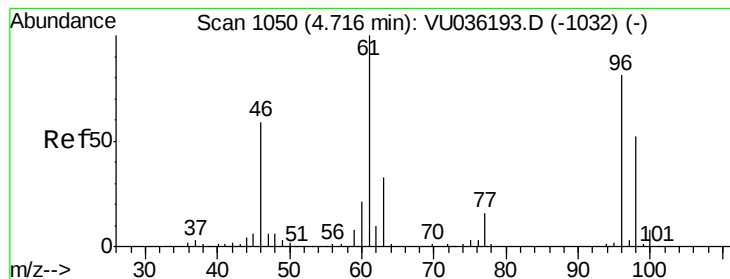
72 29.3 14.4 43.4



Abundance Ion 43.05 (42.75 to 43.75): VU036197.D (-975) (-)

Ion 72.10 (71.80 to 72.80): VU036197.D (-975) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.892 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

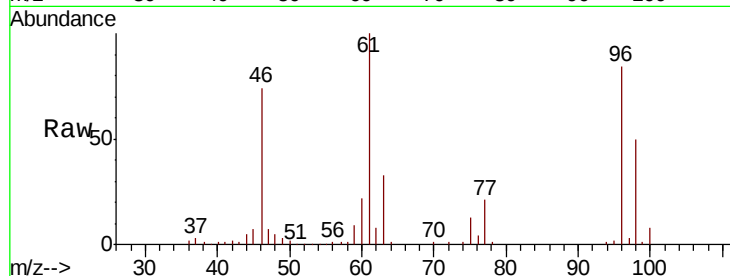
Tot Ion: 96 Resp: 121263

Ion Ratio Lower Upper

96 100

61 118.6 86.7 161.1

68 0.0 0.0 0.0

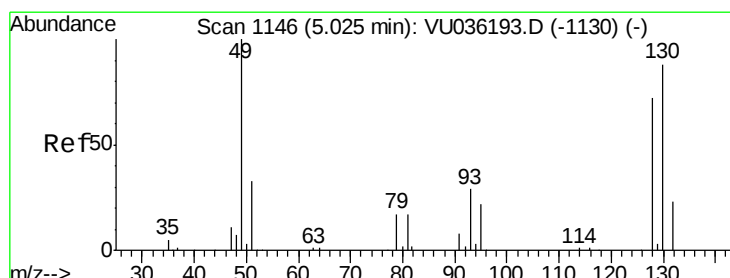
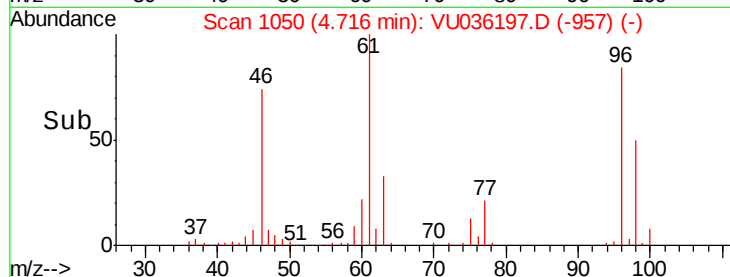
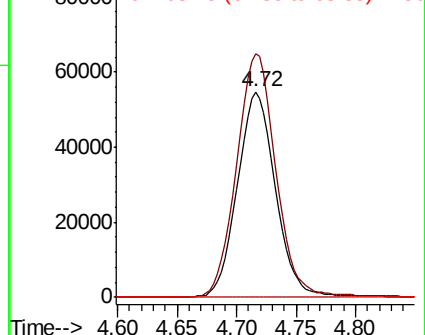


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 4.781 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Tgt Ion: 128 Resp: 57340

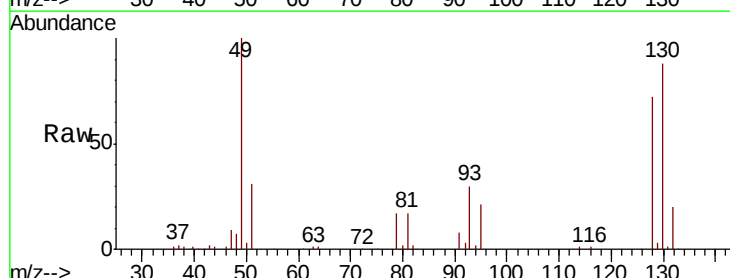
Ion Ratio Lower Upper

128 100

49 139.6 97.6 181.4

130 123.2 85.9 159.5

51 43.6 37.0 55.4



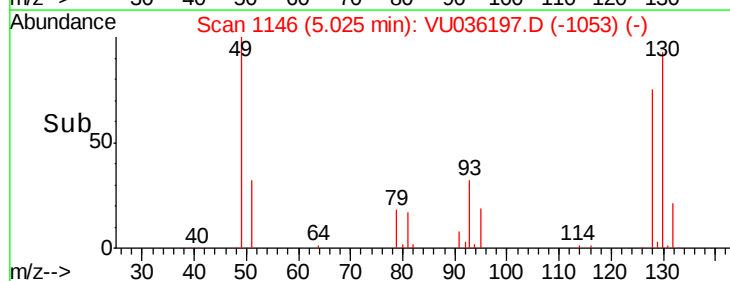
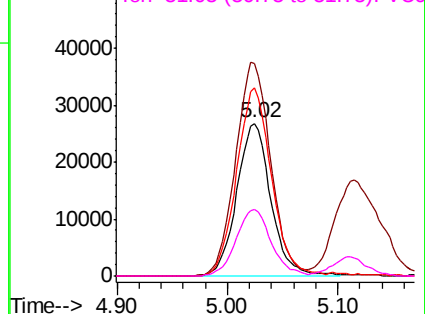
Abundance

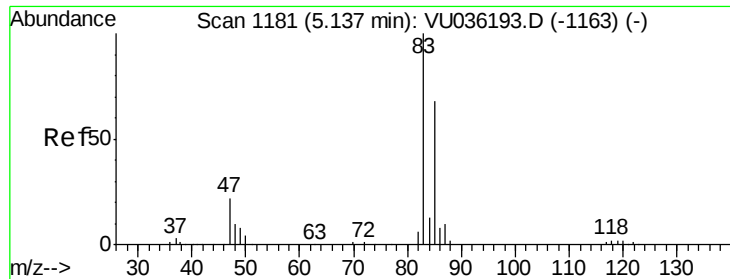
Ion 127.90 (127.60 to 128.60): V

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

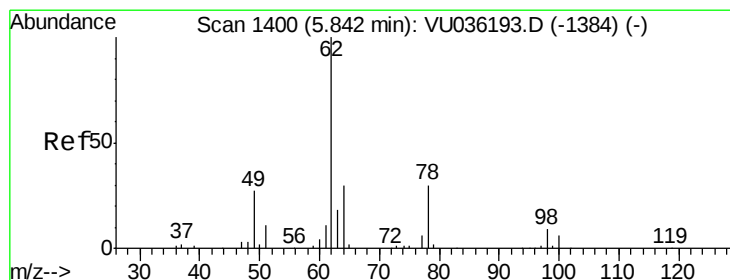
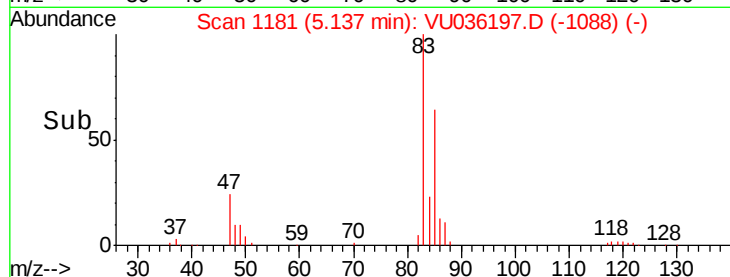
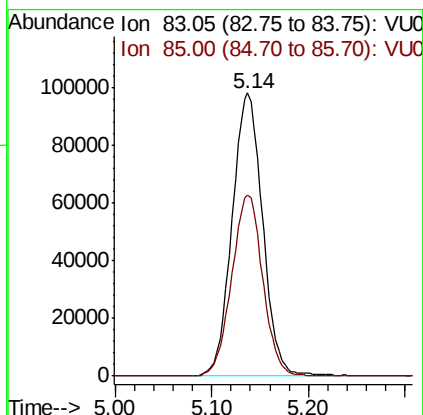
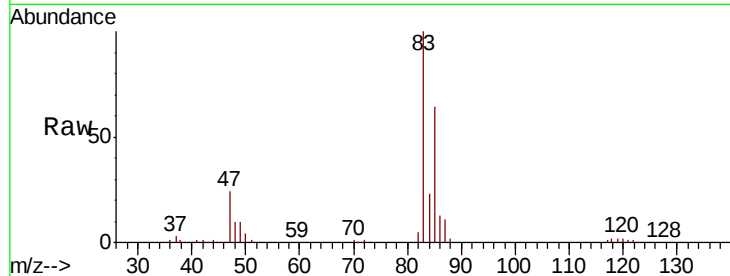




#25
Chloroform
Concen: 4.647 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

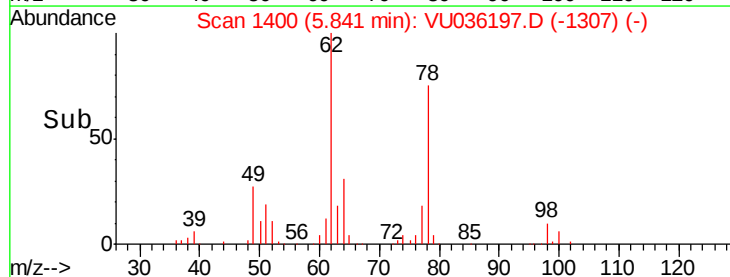
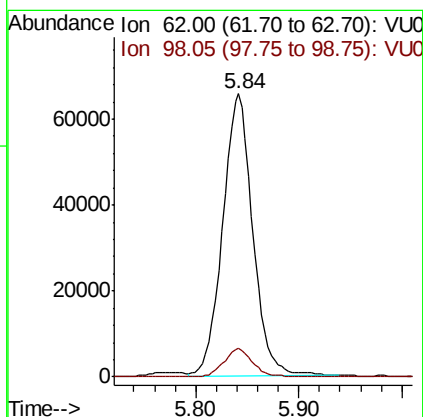
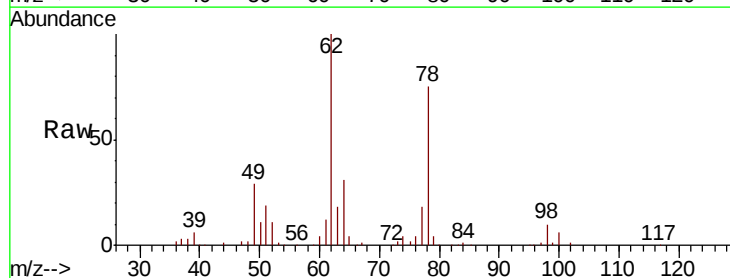
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

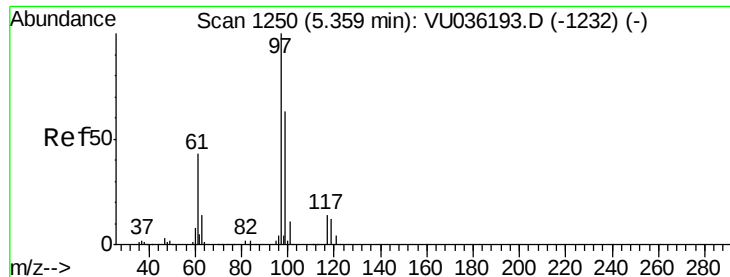
Tot Ion: 83 Resp: 214486
Ion Ratio Lower Upper
83 100
85 64.1 47.5 88.1



#27
1,2-Dichloroethane
Concen: 4.852 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

Tgt Ion: 62 Resp: 132828
Ion Ratio Lower Upper
62 100
98 10.0 7.3 10.9

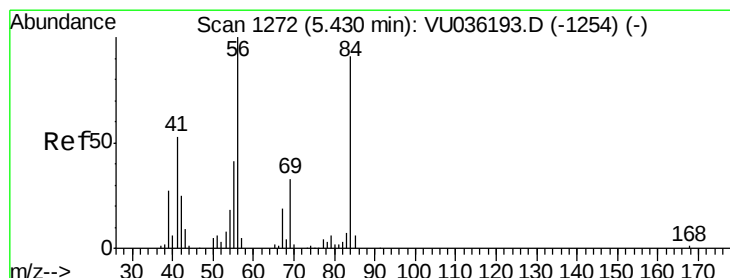
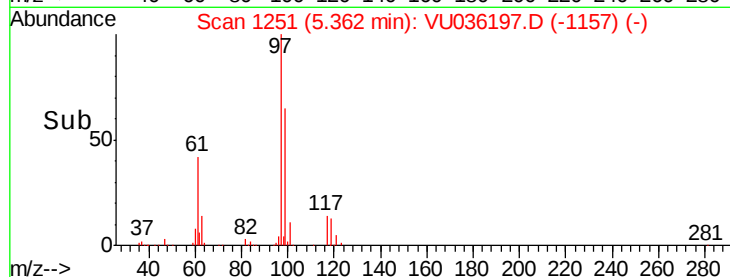
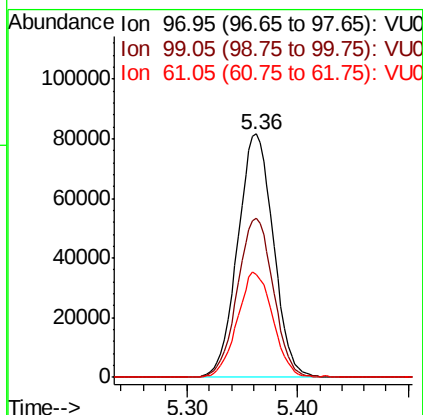
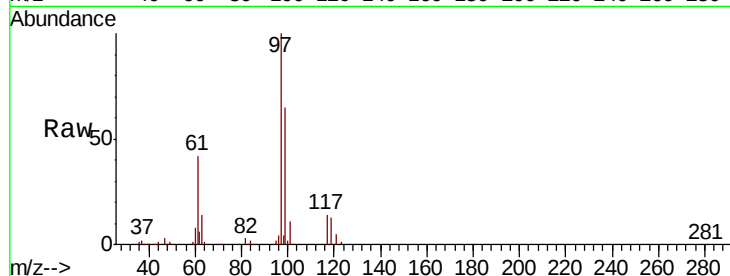




#29
 1,1,1-Trichloroethane
 Concen: 4.836 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

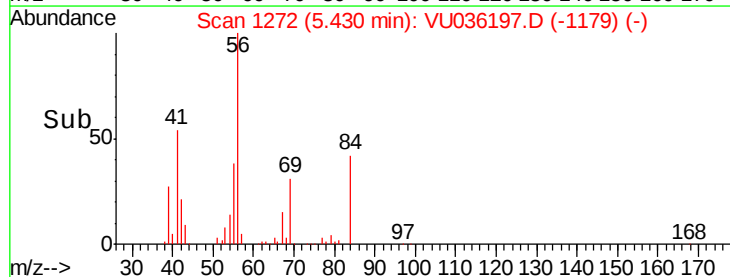
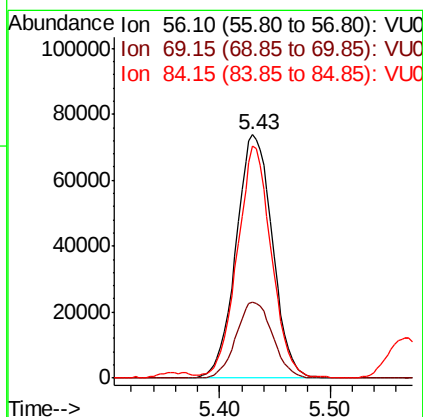
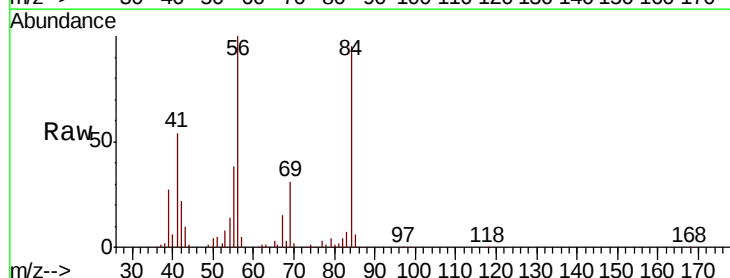
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

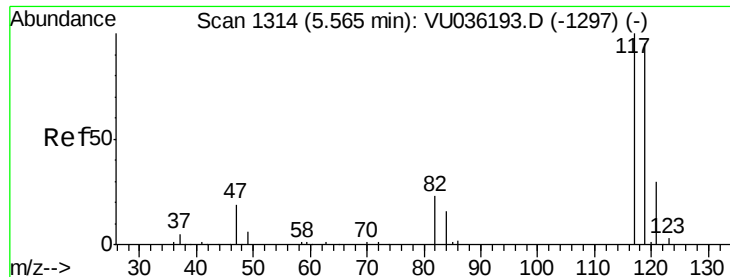
Tot Ion: 97 Resp: 182636
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.4 77.2
 61 43.1 35.0 52.6



#30
 Cyclohexane
 Concen: 5.237 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Tgt Ion: 56 Resp: 168273
 Ion Ratio Lower Upper
 56 100
 69 31.4 25.6 38.4
 84 89.9 73.0 109.4





#31

Carbon tetrachloride

Concen: 4.726 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

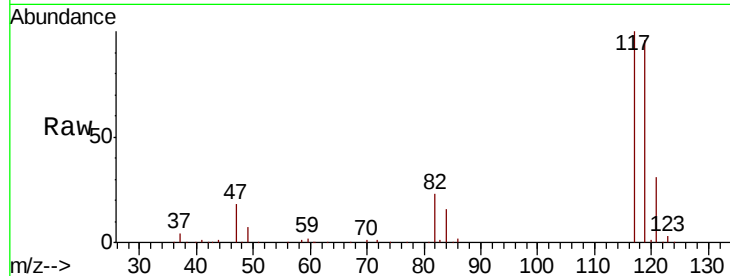
VSTD00513

Tot Ion:117 Resp: 162733

Ion Ratio Lower Upper

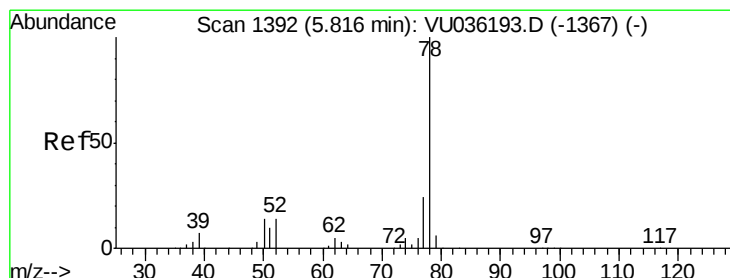
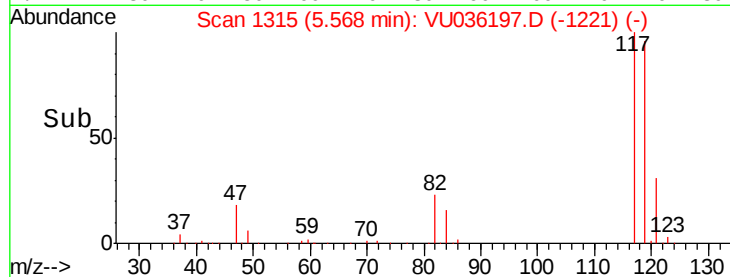
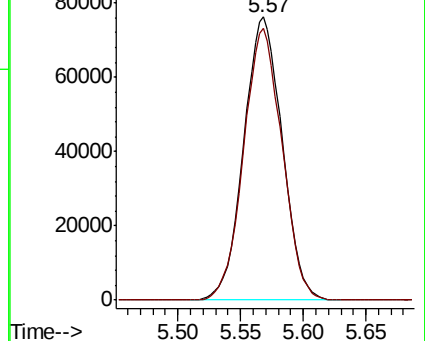
117 100

119 95.8 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.030 ug/L

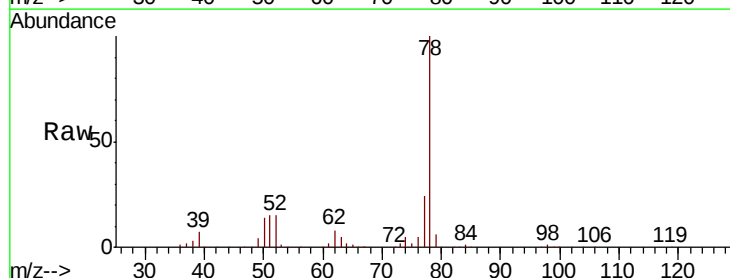
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

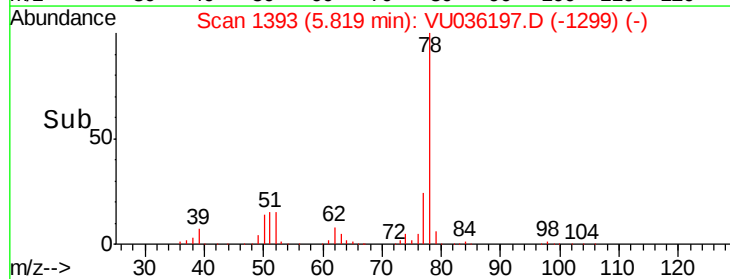
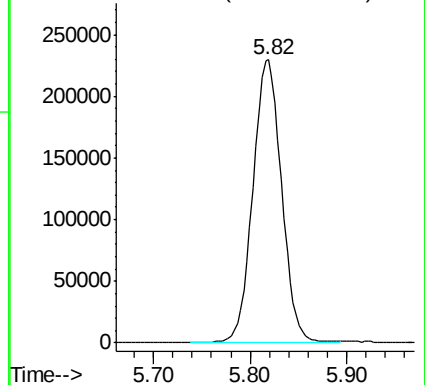
Lab File: VU036197.D

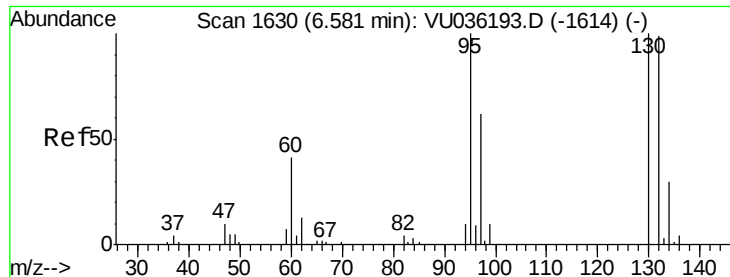
Acq: 13 Dec 2019 14:59

Tgt Ion: 78 Resp: 474173



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.872 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

Tot Ion: 95 Resp: 118402

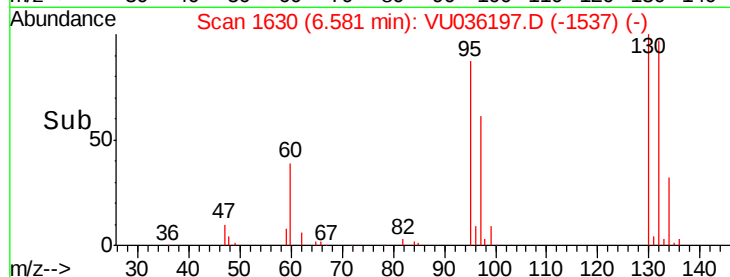
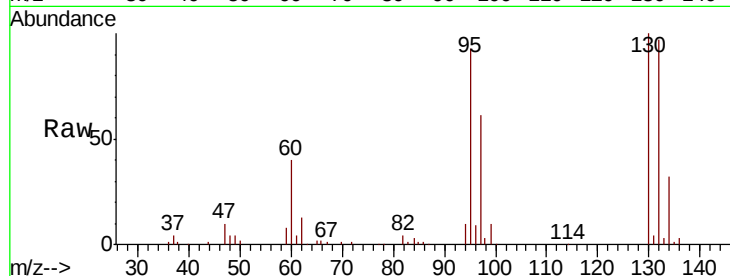
Ion Ratio Lower Upper

95 100

97 65.8 43.6 81.0

132 103.8 69.6 129.2

130 107.0 70.3 130.7



Abundance Ion 95.00 (94.70 to 95.70): VU036197.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU036197.D (-1537) (-)

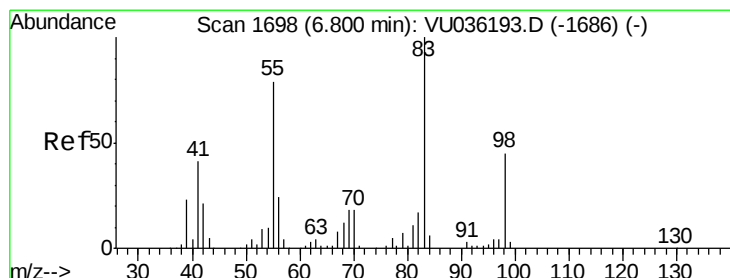
Ion 131.95 (131.65 to 132.65): VU036197.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU036197.D (-1537) (-)

Time-->

6.58

6.50 6.55 6.60 6.65



#35

Methylcyclohexane

Concen: 5.173 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

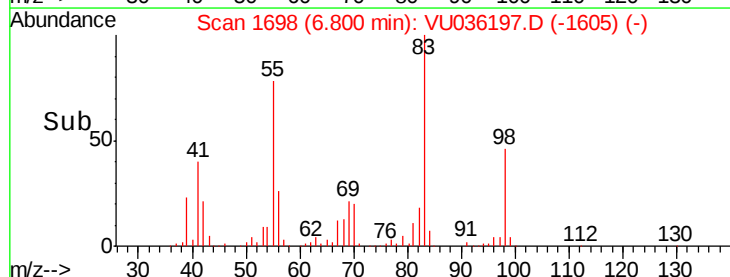
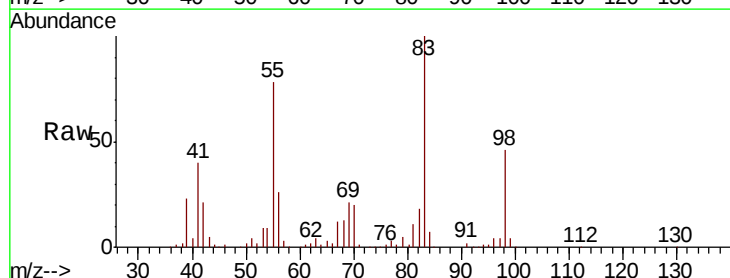
Tgt Ion: 83 Resp: 178750

Ion Ratio Lower Upper

83 100

55 77.4 62.6 94.0

98 46.5 36.2 54.2



Abundance Ion 83.15 (82.85 to 83.85): VU036197.D (-1605) (-)

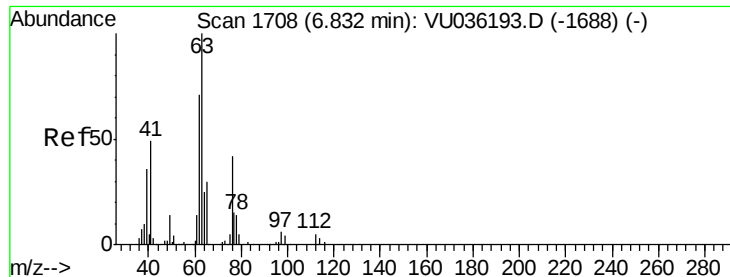
Ion 55.10 (54.80 to 55.80): VU036197.D (-1605) (-)

Ion 98.15 (97.85 to 98.85): VU036197.D (-1605) (-)

Time-->

6.80

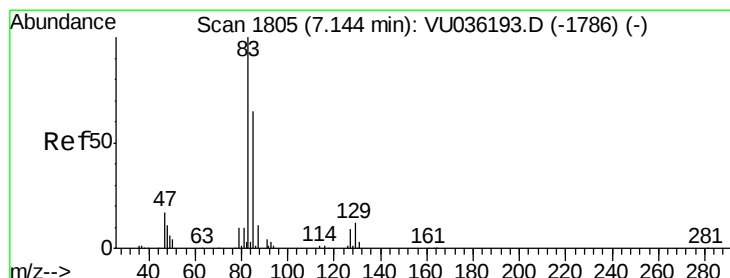
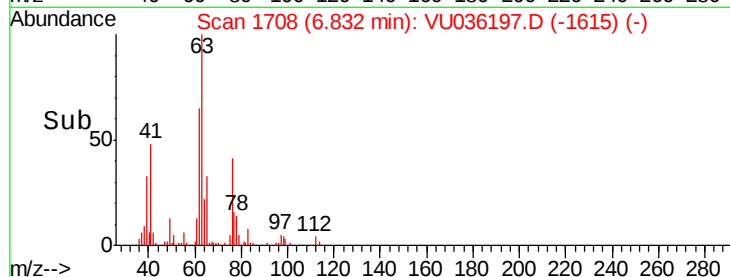
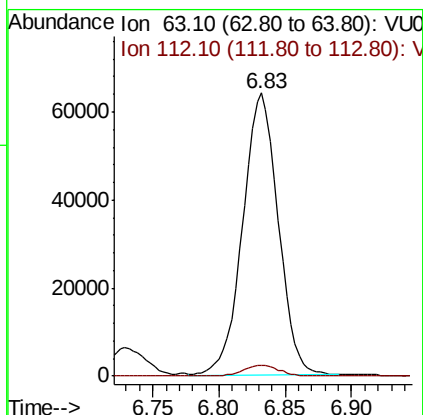
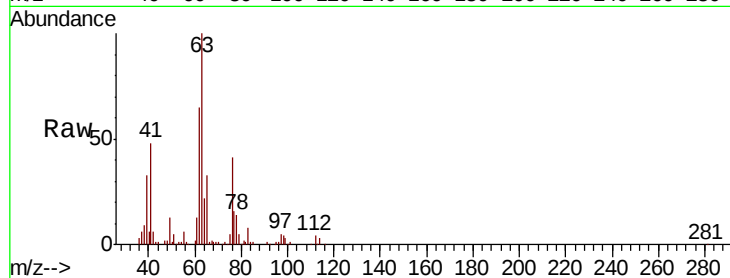
6.70 6.75 6.80 6.85 6.90



#37
 1,2-Dichloropropane
 Concen: 4.968 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

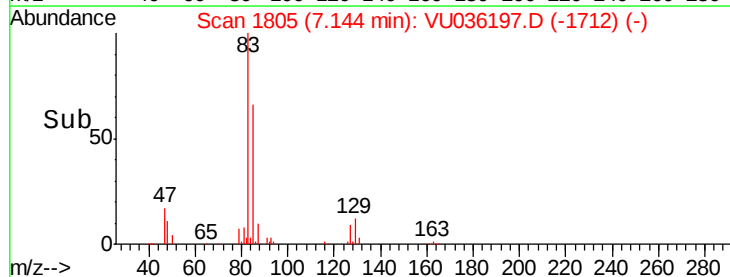
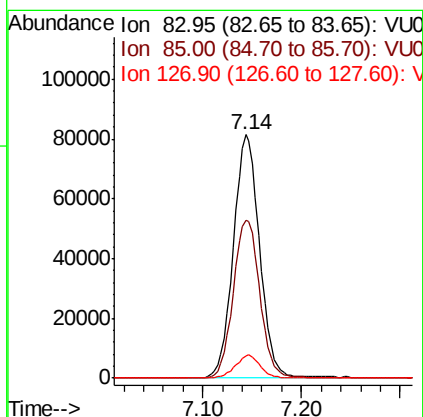
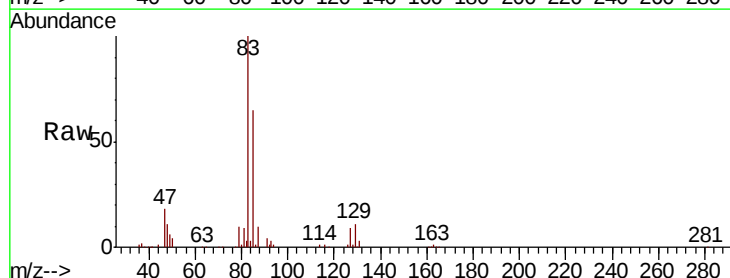
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

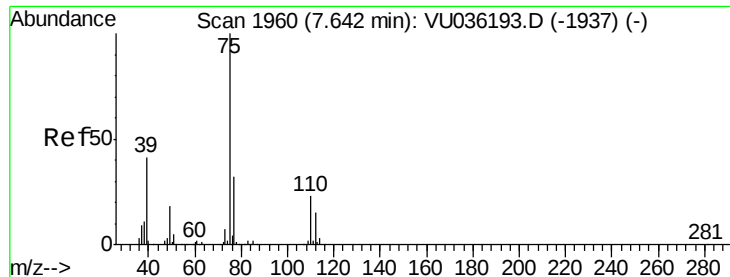
Tot Ion: 63 Resp: 119478
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.8 5.8



#38
 Bromodichloromethane
 Concen: 4.812 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Tgt Ion: 83 Resp: 150624
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.6 84.6
 127 9.1 7.1 10.7

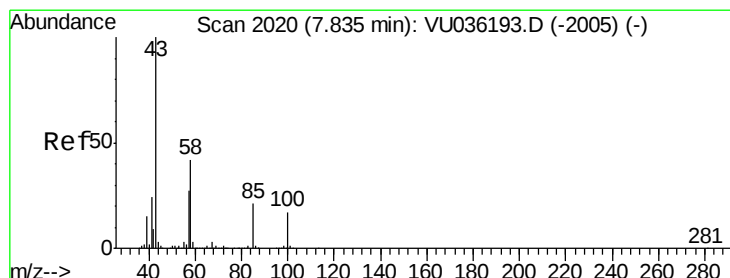
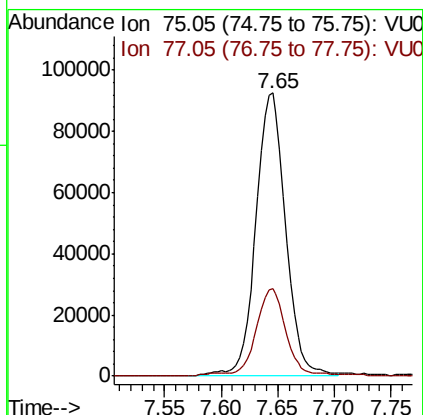
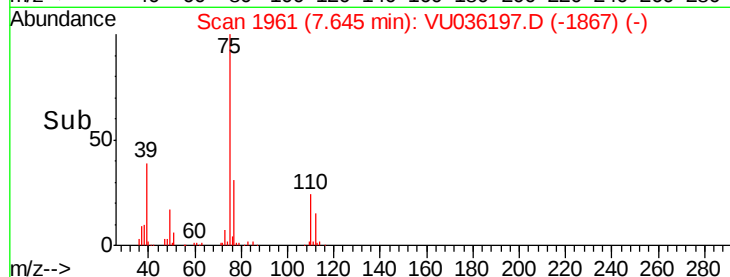
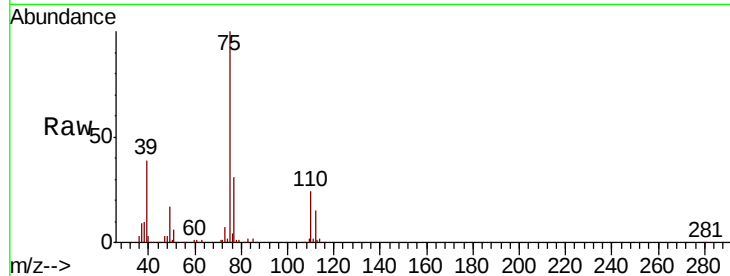




#39
 cis-1,3-Dichloropropene
 Concen: 5.186 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

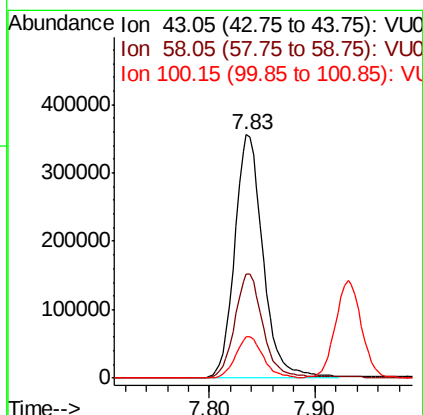
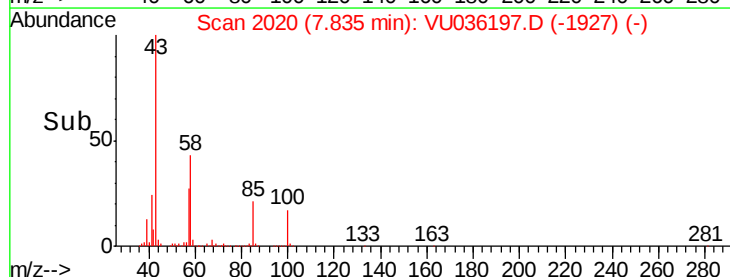
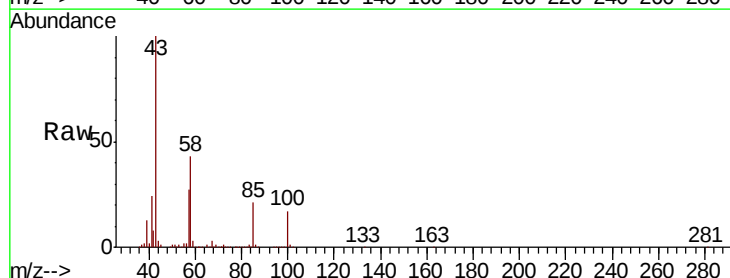
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

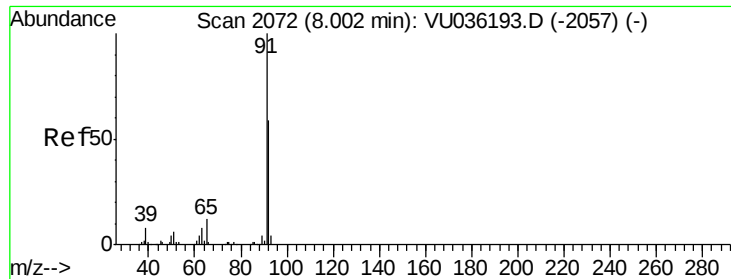
Tot Ion: 75 Resp: 169949
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 52.736 ug/L
 RT: 7.83 min Scan# 2020
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Tgt Ion: 43 Resp: 663429
 Ion Ratio Lower Upper
 43 100
 58 42.6 33.3 49.9
 100 16.7 13.7 20.5





#42

Toluene

Concen: 5.175 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

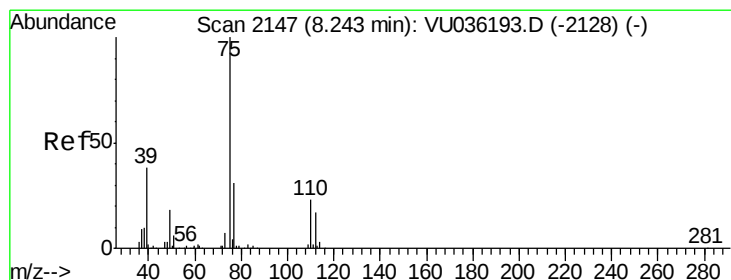
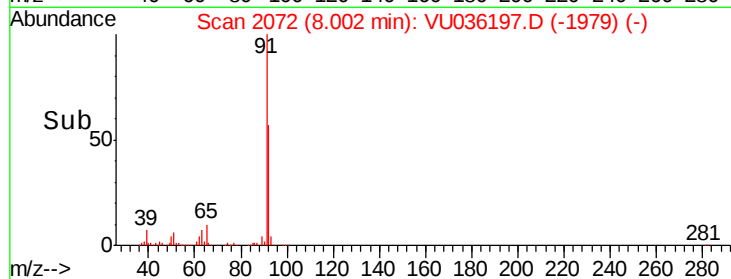
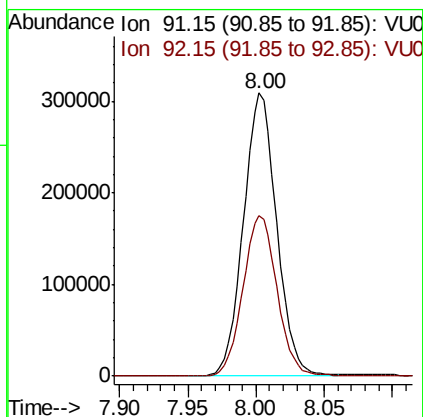
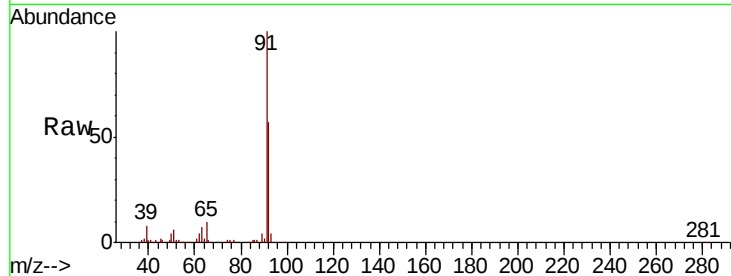
VSTD00513

Tot Ion: 91 Resp: 522896

Ion Ratio Lower Upper

91 100

92 56.7 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 5.178 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036197.D

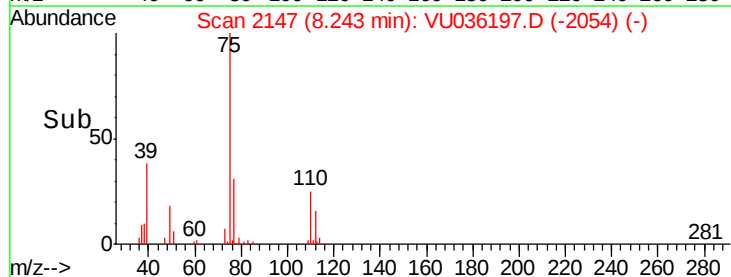
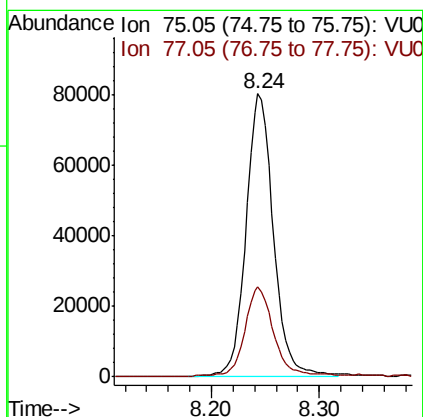
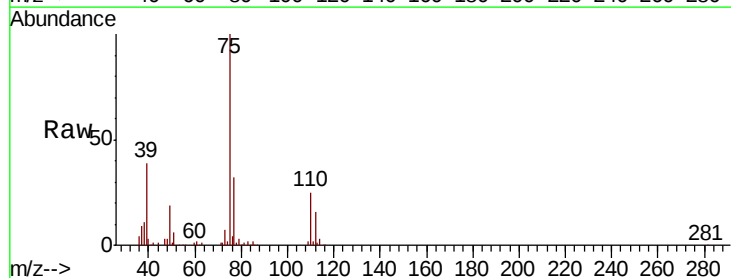
Acq: 13 Dec 2019 14:59

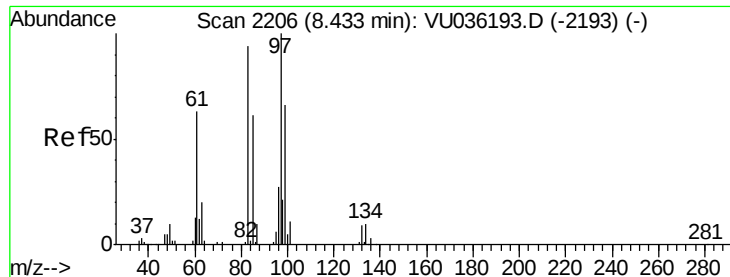
Tgt Ion: 75 Resp: 142520

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1

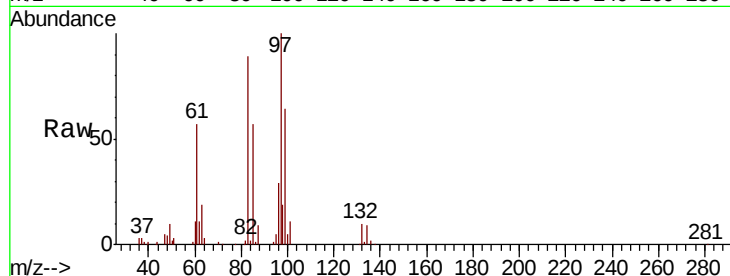




#45
 1,1,2-Trichloroethane
 Concen: 4.848 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion:	97	Resp:	87375
Ion	Ratio	Lower	Upper
97	100		
99	63.8	46.1	85.5
83	89.1	65.9	122.3
85	56.7	43.1	80.1



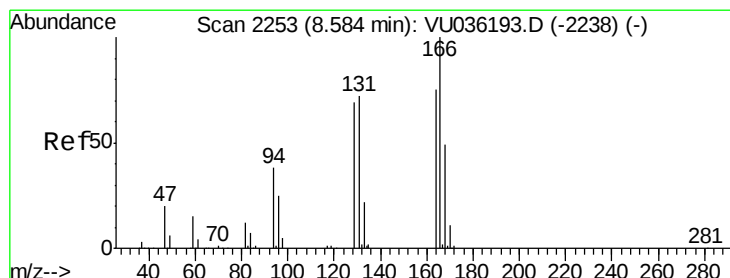
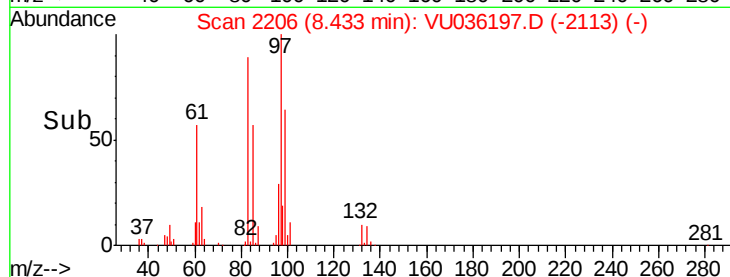
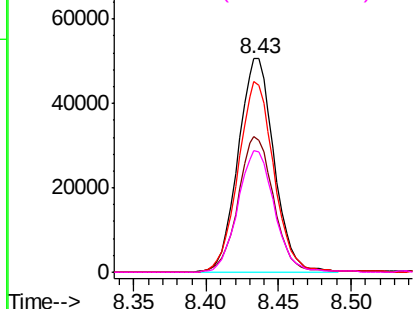
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

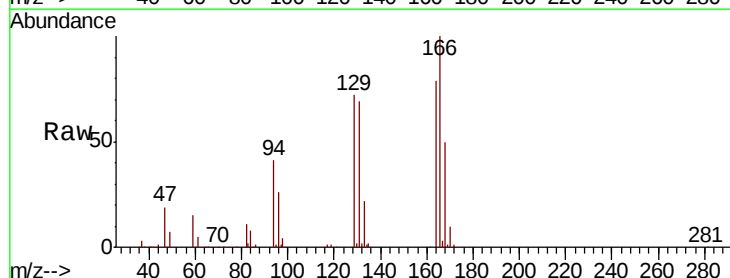
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 4.917 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Tgt Ion:	164	Resp:	107919
Ion	Ratio	Lower	Upper
164	100		
129	91.2	64.2	119.2
131	87.0	66.6	123.8
166	125.8	93.1	172.9



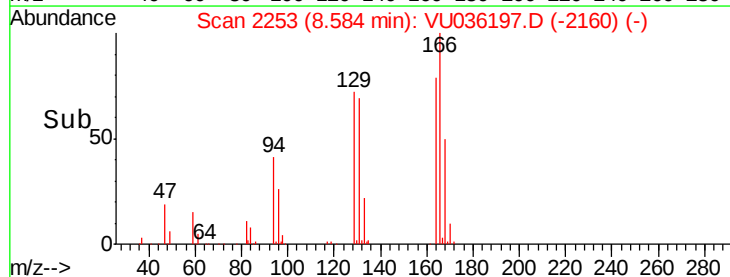
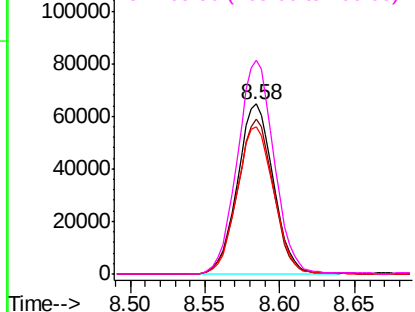
Abundance

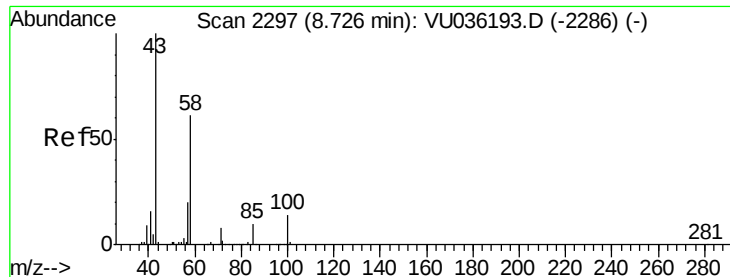
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

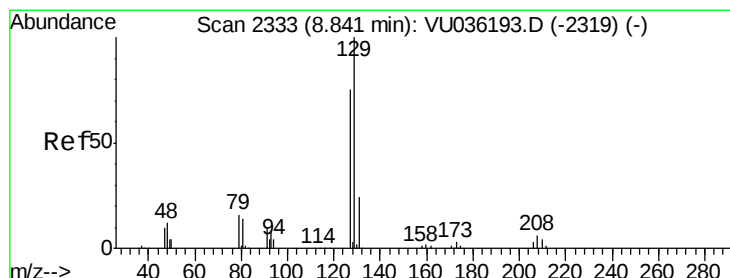
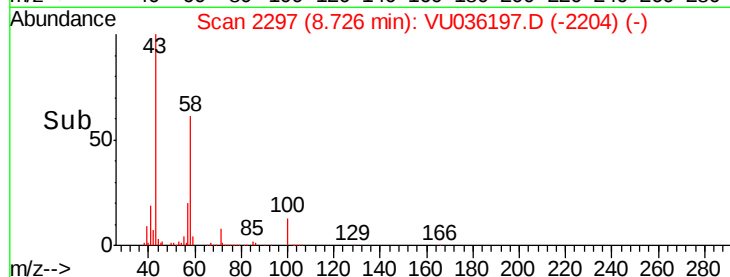
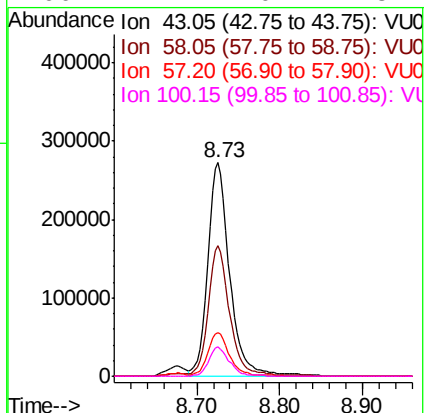
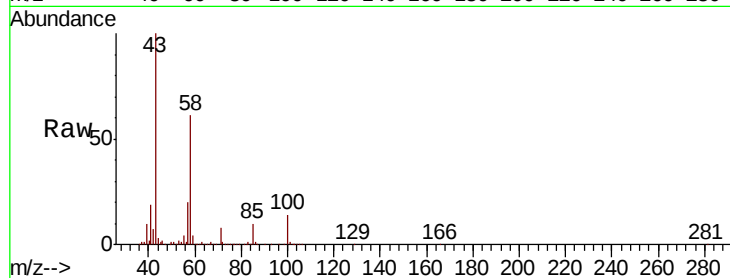




#48
2-Hexanone
Concen: 53.801 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

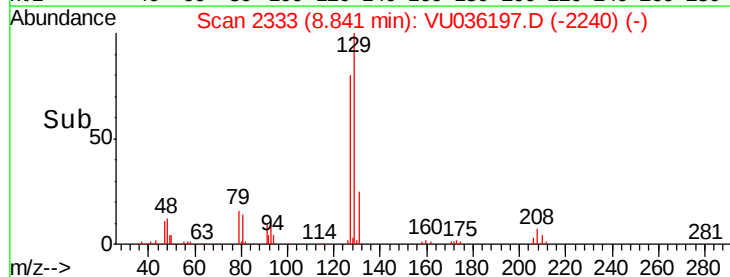
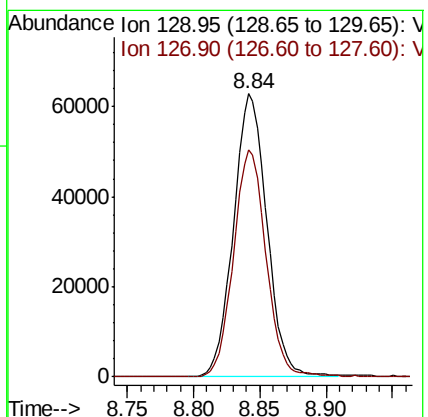
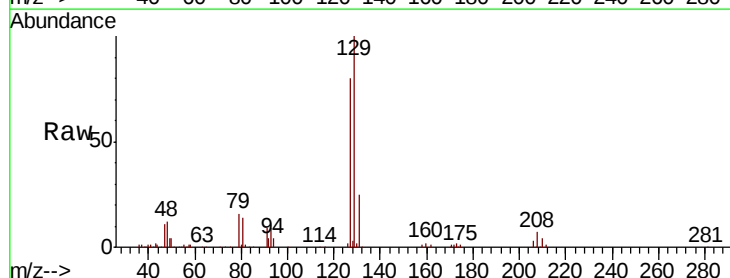
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

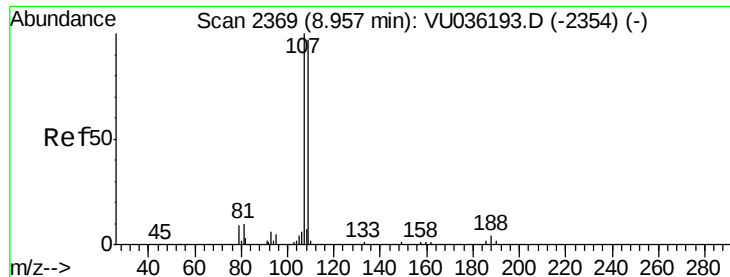
Tot Ion:	43	Resp:	505108
Ion	Ratio	Lower	Upper
43	100		
58	60.3	46.2	69.2
57	19.9	16.2	24.4
100	12.7	10.2	15.4



#49
Dibromochloromethane
Concen: 4.940 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

Tgt Ion:	129	Resp:	110043
Ion	Ratio	Lower	Upper
129	100		
127	80.1	52.6	97.6





#50

1,2-Dibromoethane

Concen: 4.998 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

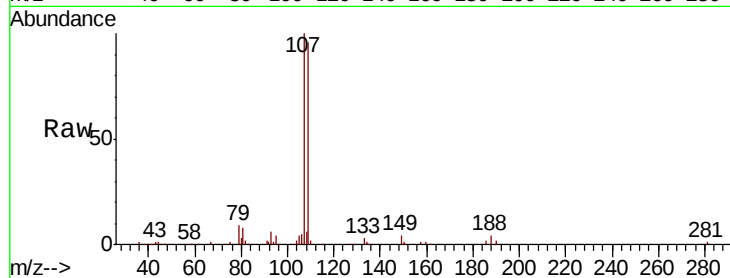
Tot Ion:107 Resp: 85907

Ion Ratio Lower Upper

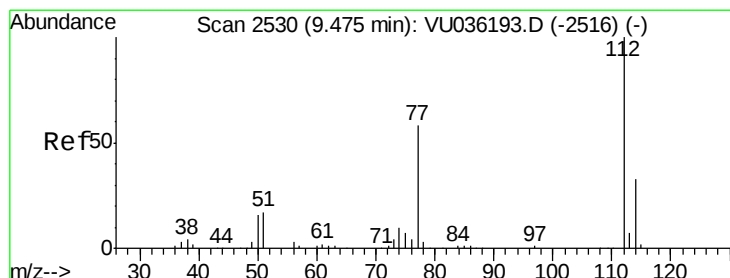
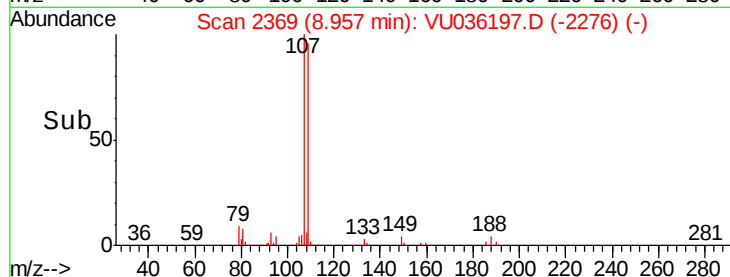
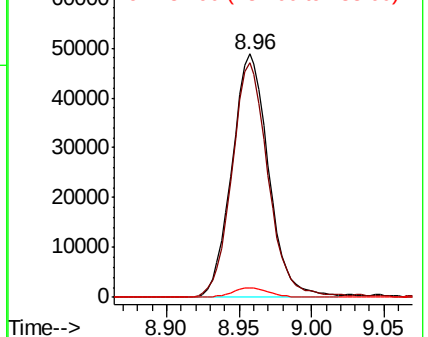
107 100

109 96.4 67.5 125.4

188 3.9 3.1 4.7



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



#51

Chlorobenzene

Concen: 4.965 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

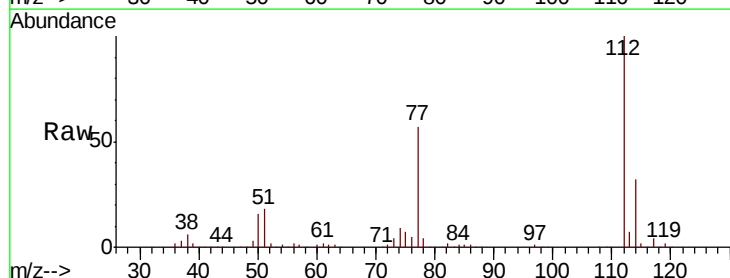
Tgt Ion:112 Resp: 331281

Ion Ratio Lower Upper

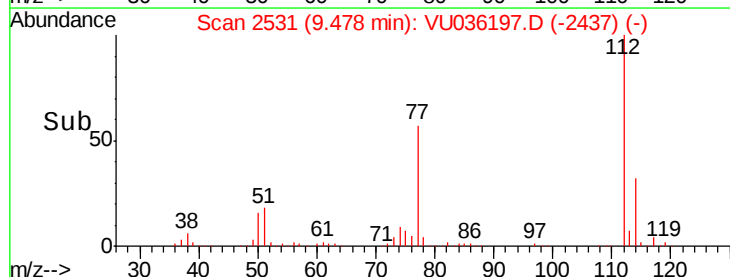
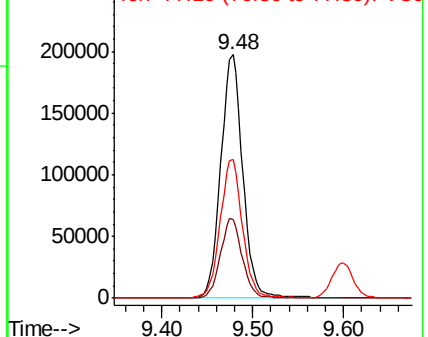
112 100

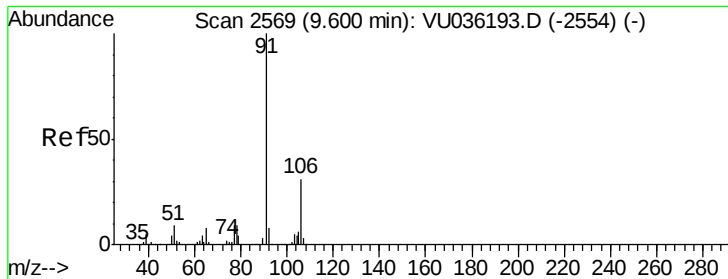
114 32.4 23.2 43.2

77 56.7 46.5 69.7



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): V





#52

Ethylbenzene

Concen: 5.220 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

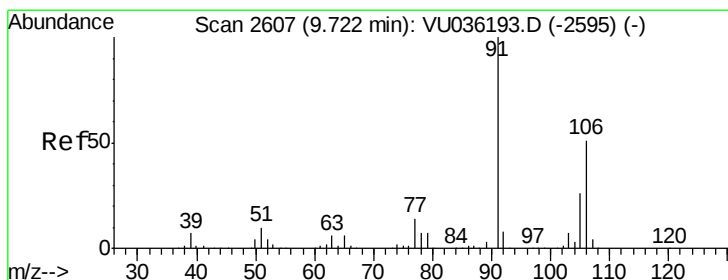
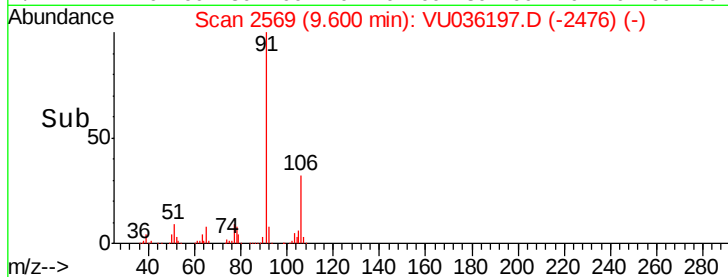
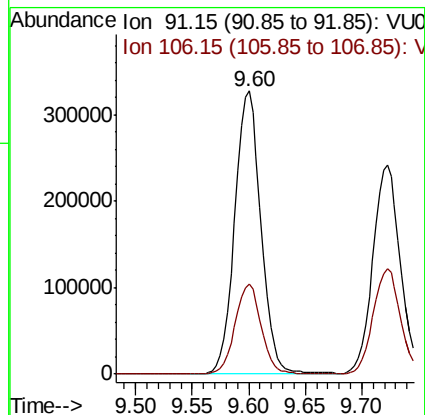
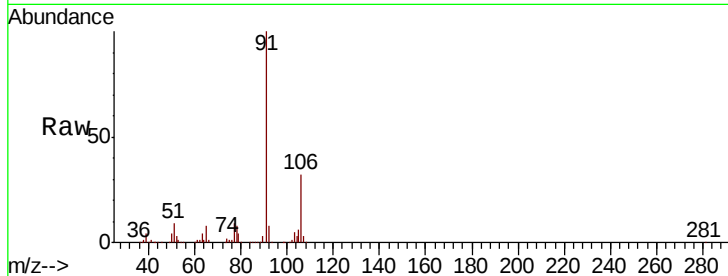
VSTD00513

Tot Ion: 91 Resp: 529753

Ion Ratio Lower Upper

91 100

106 31.6 22.0 41.0



#53

m,p-Xylene

Concen: 5.242 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU036197.D

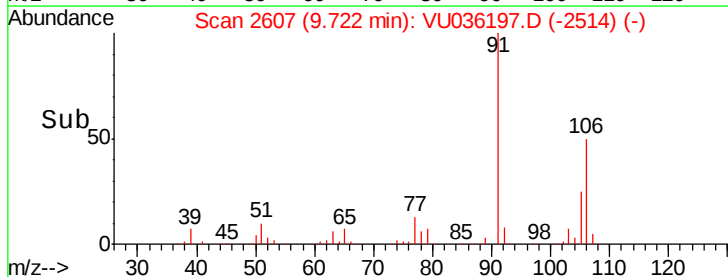
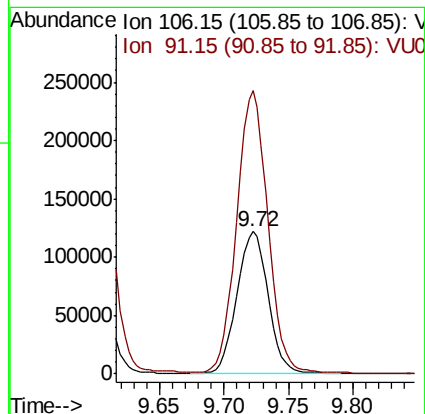
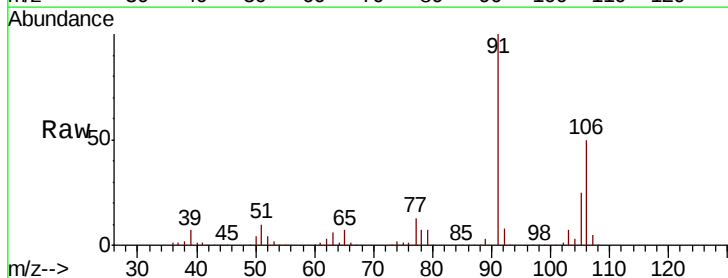
Acq: 13 Dec 2019 14:59

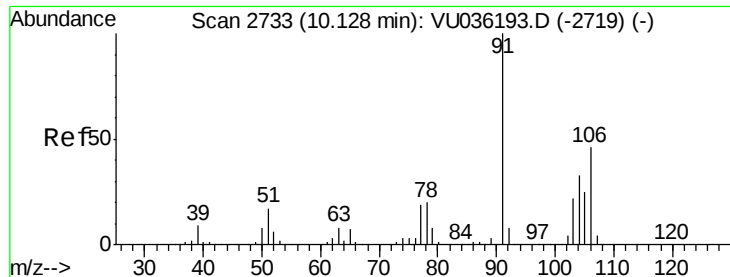
Tgt Ion: 106 Resp: 204986

Ion Ratio Lower Upper

106 100

91 198.8 138.7 257.7

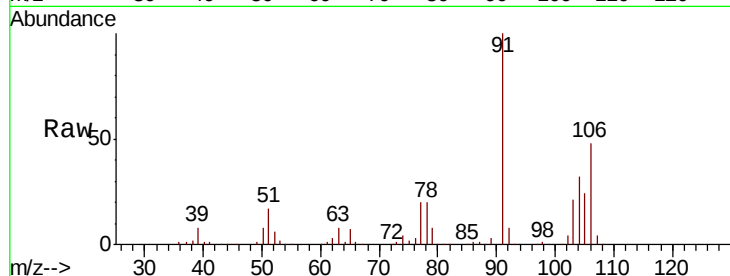




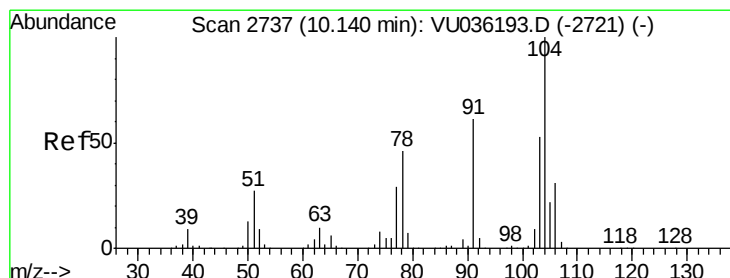
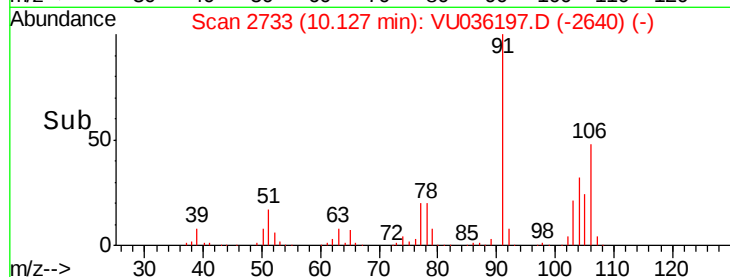
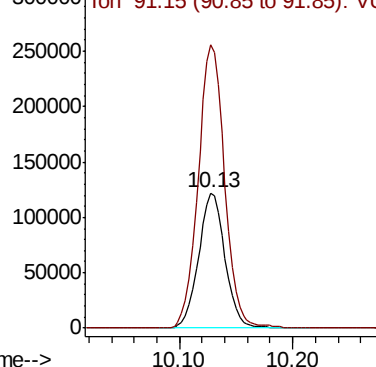
#54
o-Xylene
Concen: 5.247 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion:106 Resp: 197896
Ion Ratio Lower Upper
106 100
91 209.1 152.8 283.8

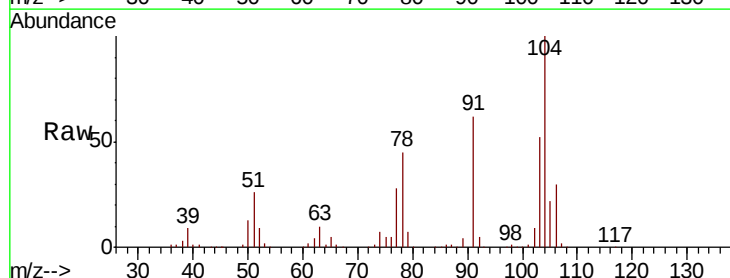


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

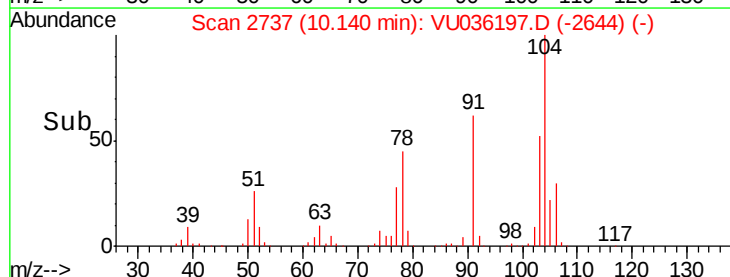
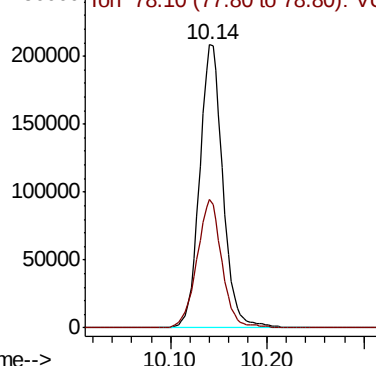


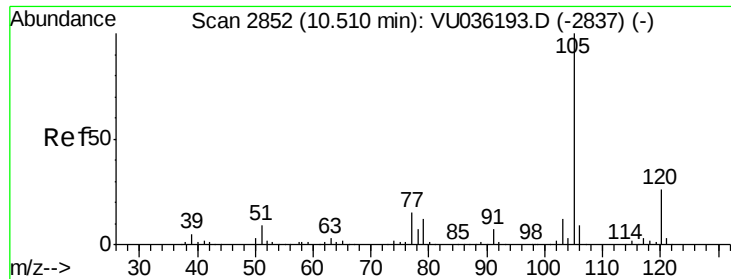
#55
Styrene
Concen: 5.224 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU036197.D
Acq: 13 Dec 2019 14:59

Tgt Ion:104 Resp: 348638
Ion Ratio Lower Upper
104 100
78 45.2 32.1 59.5



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





#56

Isopropylbenzene

Concen: 5.289 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

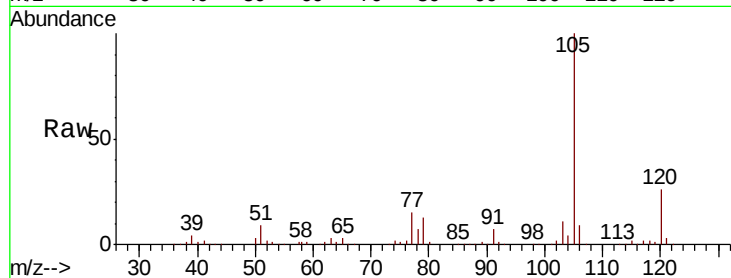
Tot Ion:105 Resp: 512275

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

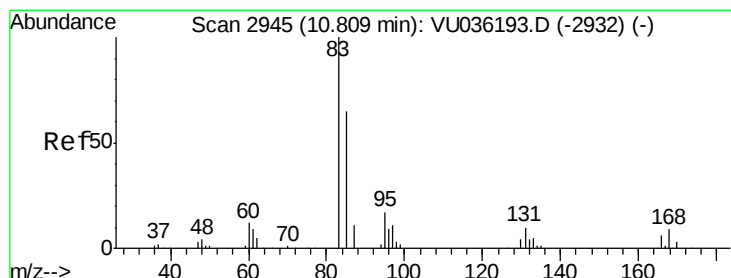
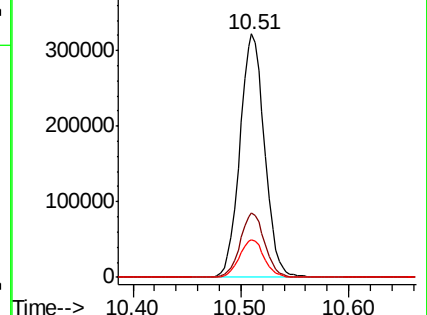
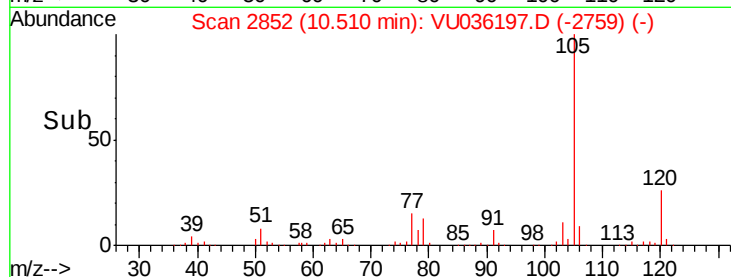
77 15.6 12.5 18.7



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: 4.955 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

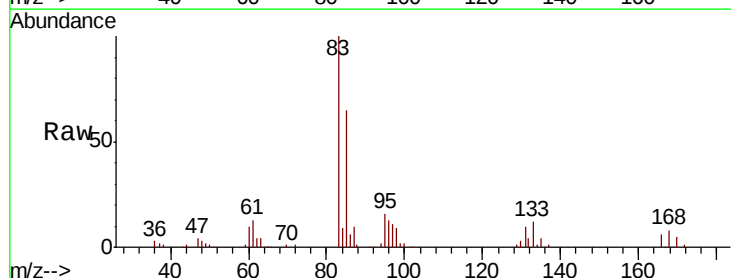
Tgt Ion: 83 Resp: 113695

Ion Ratio Lower Upper

83 100

85 65.3 45.6 84.8

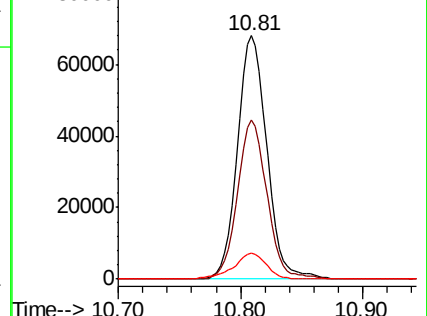
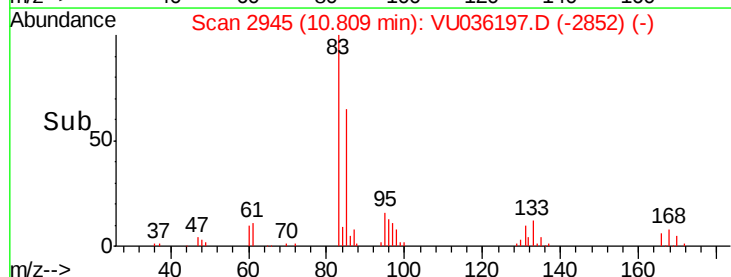
131 10.5 8.5 12.7

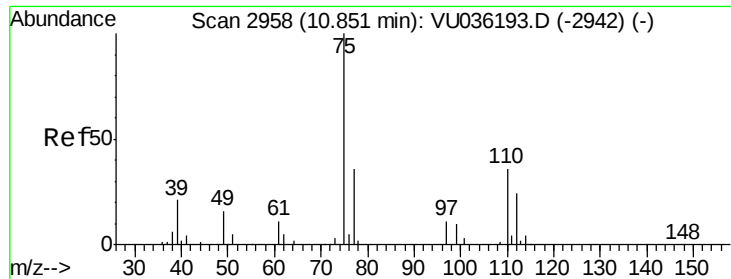


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.092 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

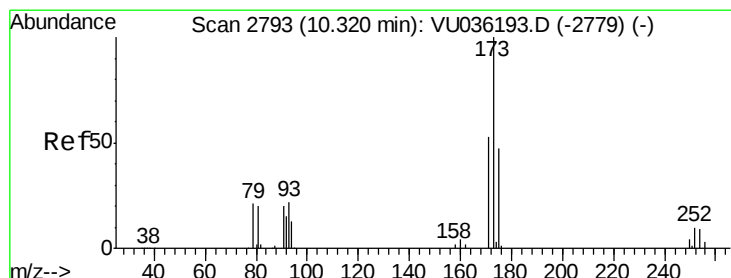
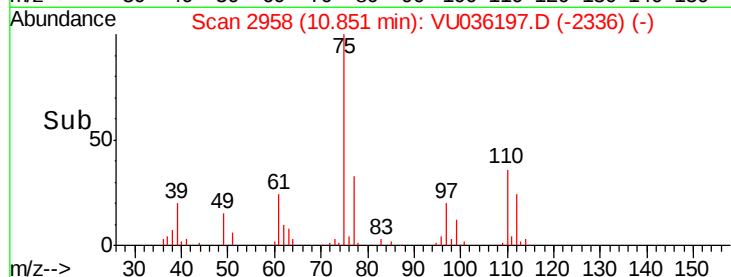
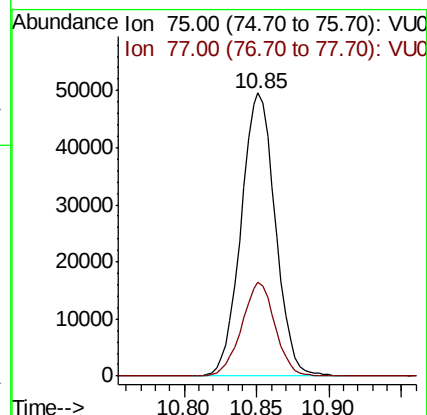
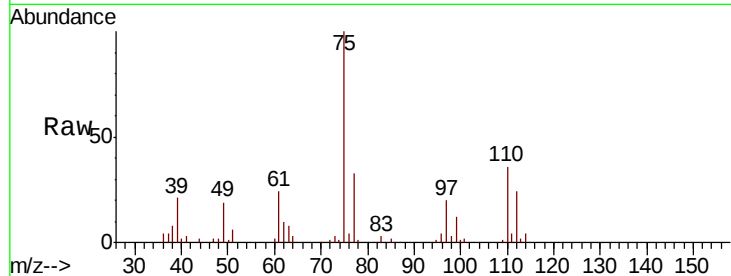
VSTD00513

Tot Ion: 75 Resp: 81390

Ion Ratio Lower Upper

75 100

77 32.3 27.2 40.8



#61

Bromoform

Concen: 4.742 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

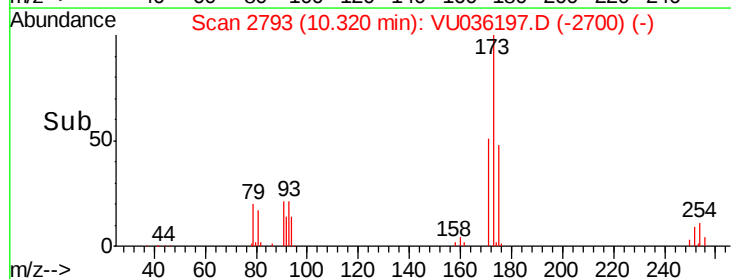
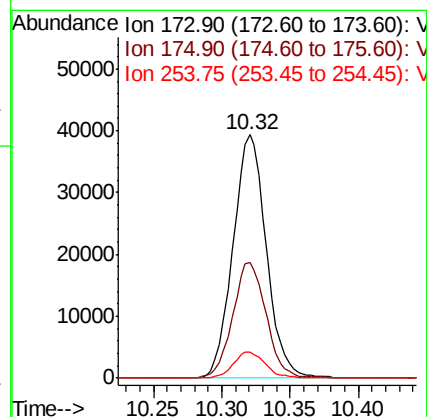
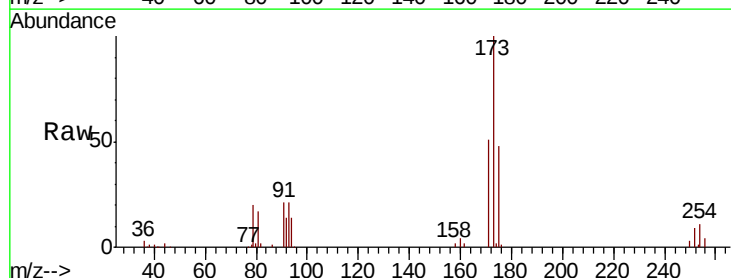
Tgt Ion: 173 Resp: 66580

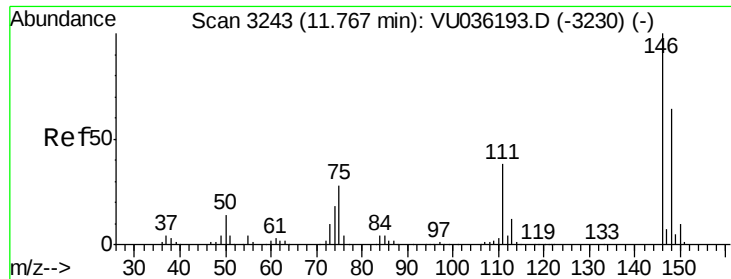
Ion Ratio Lower Upper

173 100

175 47.8 39.2 58.8

254 10.2 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.080 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

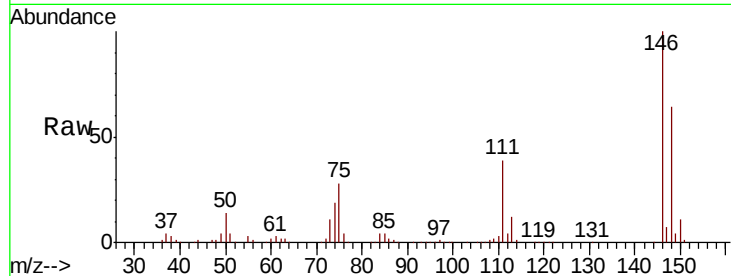
Tot Ion:146 Resp: 277218

Ion Ratio Lower Upper

146 100

111 38.7 26.3 48.9

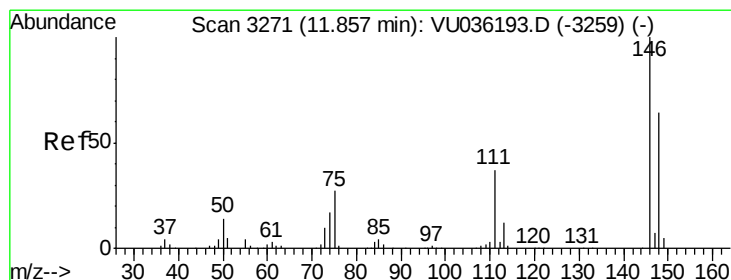
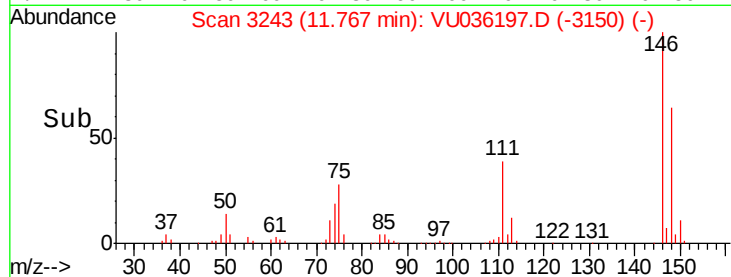
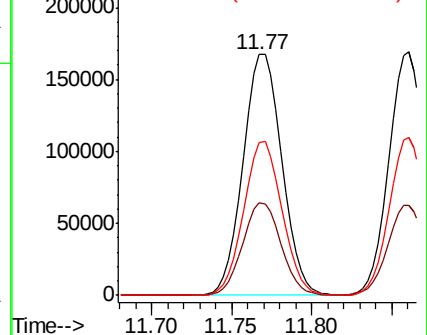
148 63.6 45.1 83.9



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: 5.082 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

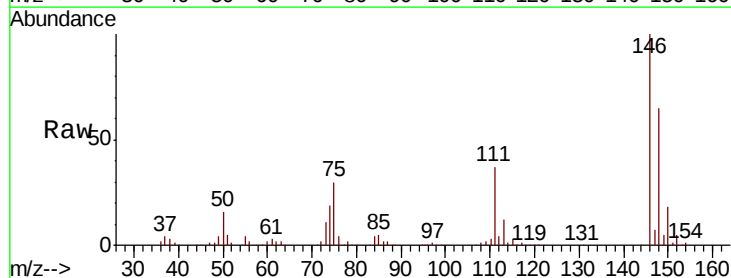
Tgt Ion:146 Resp: 275053

Ion Ratio Lower Upper

146 100

111 37.2 25.8 48.0

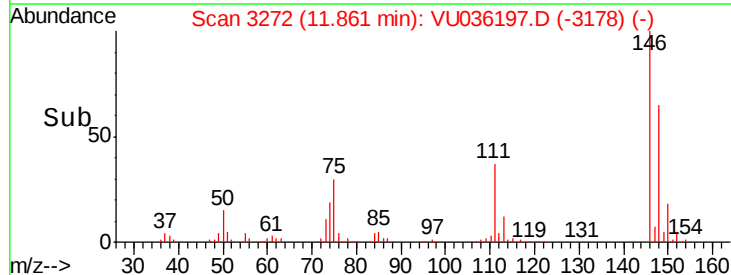
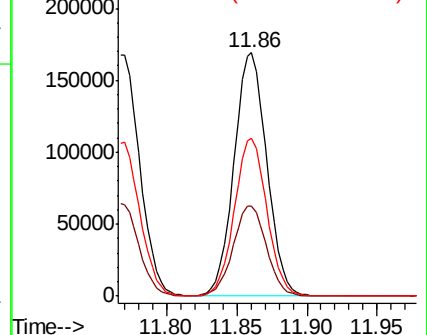
148 64.7 44.7 82.9

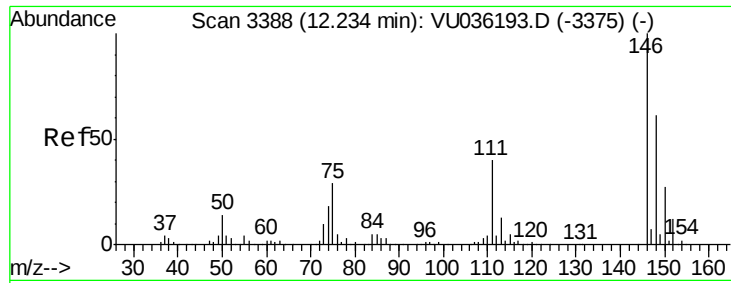


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.997 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

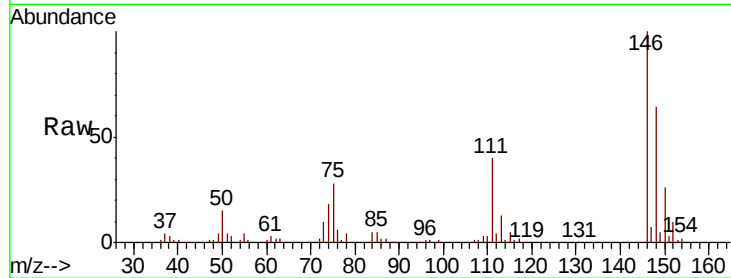
Tot Ion:146 Resp: 259785

Ion Ratio Lower Upper

146 100

111 39.6 32.5 48.7

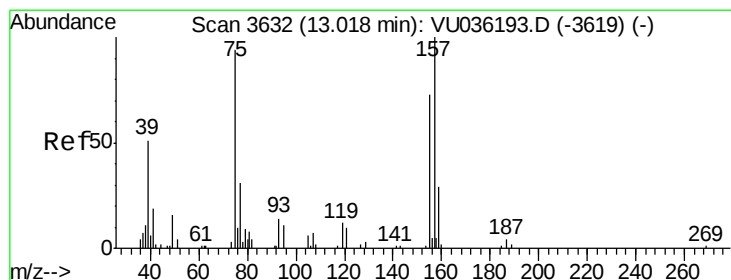
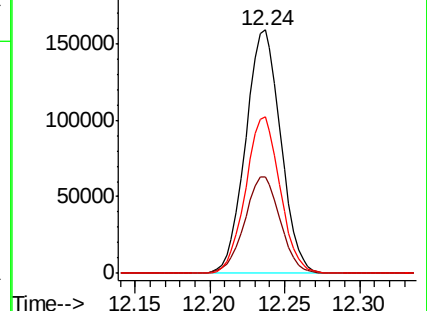
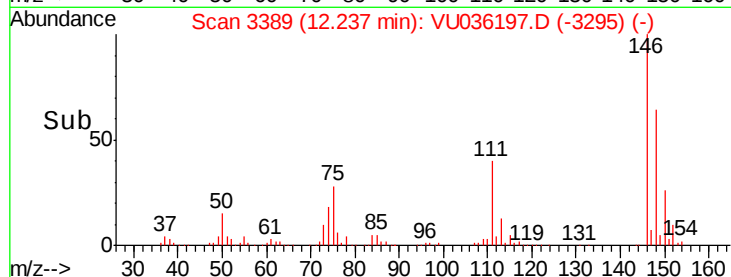
148 64.1 49.2 73.8



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: 4.820 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

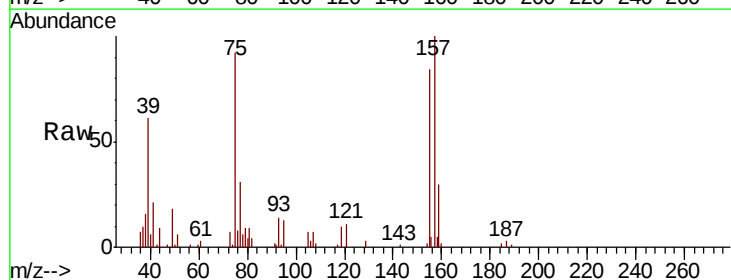
Tgt Ion: 75 Resp: 16646

Ion Ratio Lower Upper

75 100

155 91.0 61.9 92.9

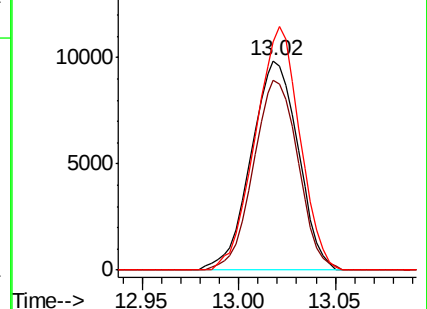
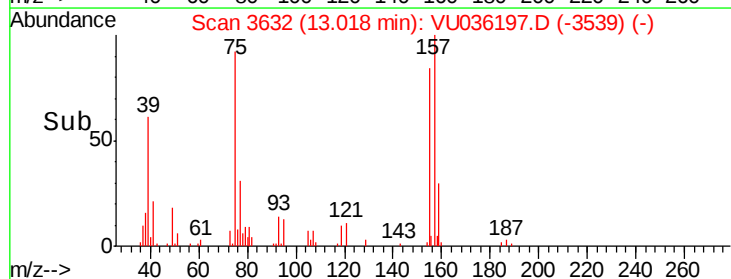
157 108.9 84.9 127.3

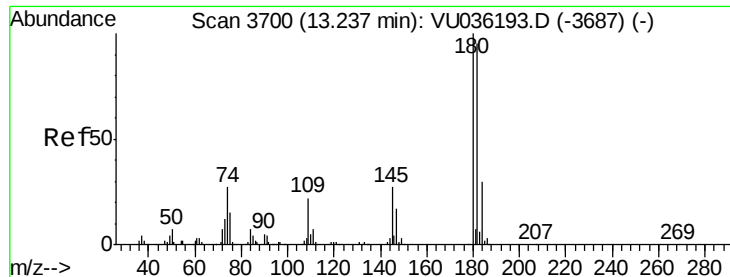


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

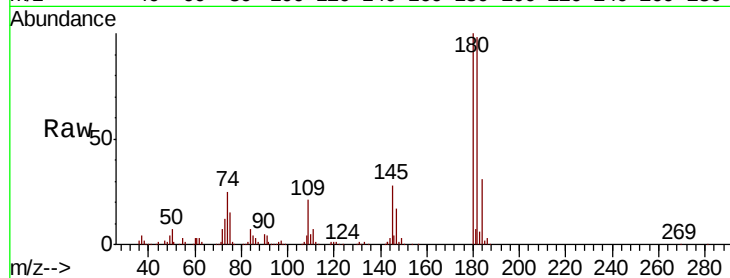




#67
 1,3,5-Trichlorobenzene
 Concen: 4.913 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.9	115.3
184	30.8	24.2	36.4
145	27.8	22.0	33.0



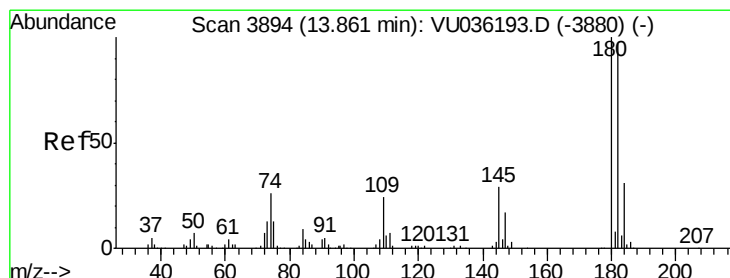
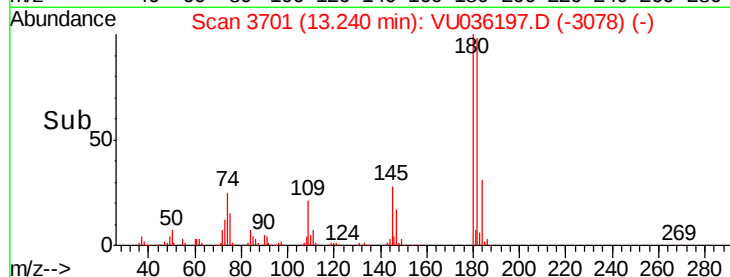
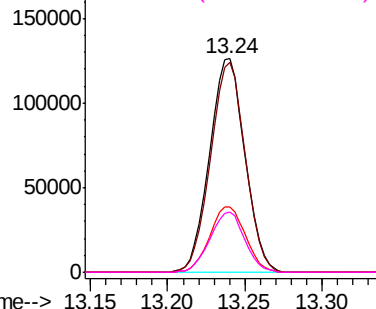
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

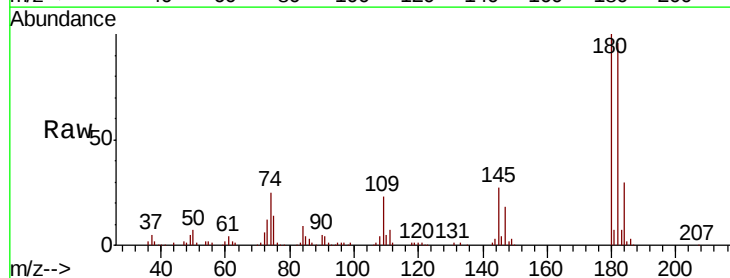
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.138 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU036197.D
 Acq: 13 Dec 2019 14:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.3	112.9
145	27.7	22.7	34.1

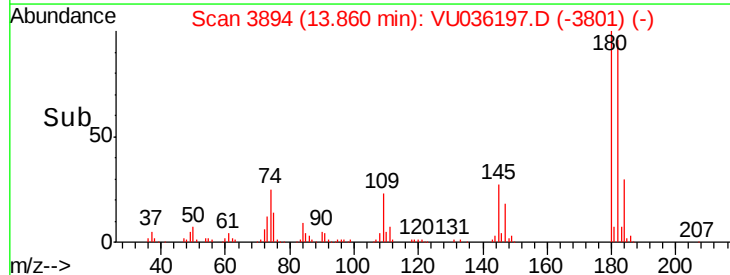
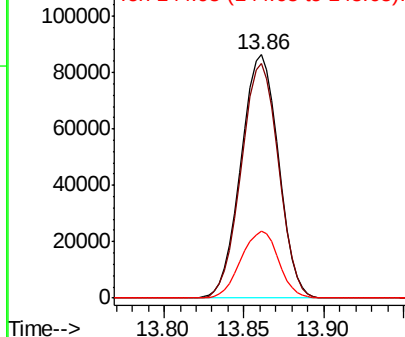


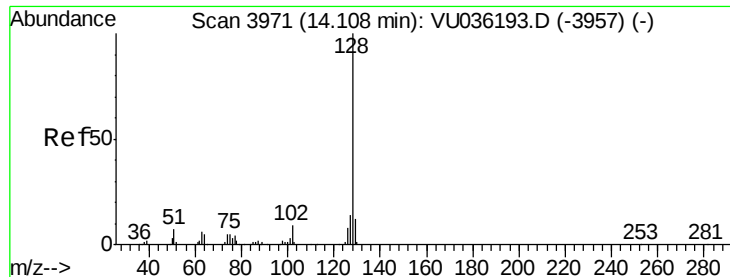
Abundance

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: 5.119 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

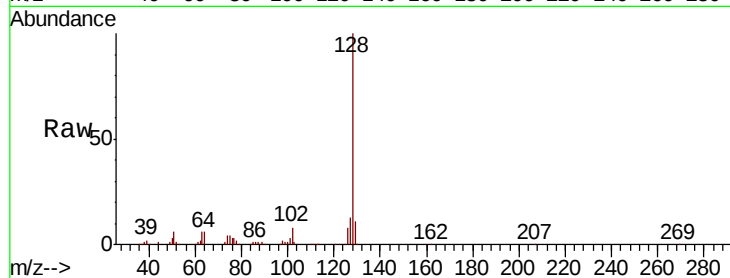
Tot Ion:128 Resp: 174924

Ion Ratio Lower Upper

128 100

129 11.3 8.4 12.6

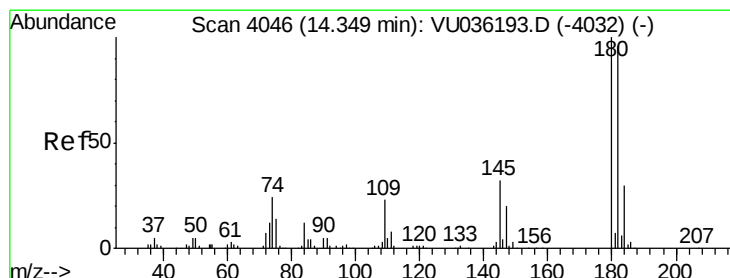
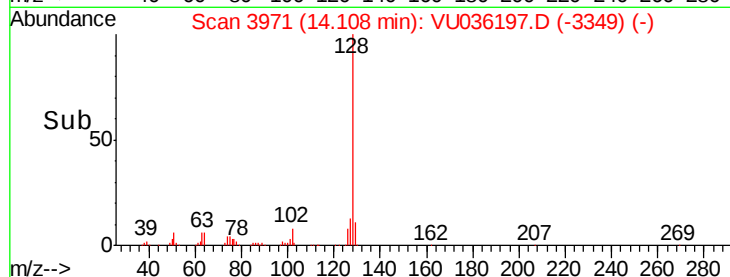
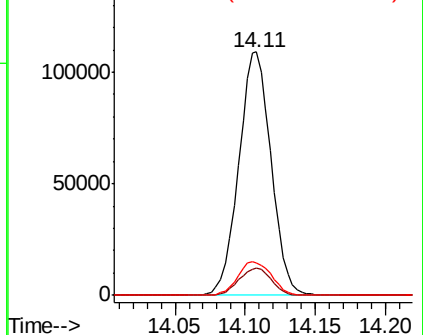
127 14.4 11.5 17.3



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: 5.397 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VU036197.D

Acq: 13 Dec 2019 14:59

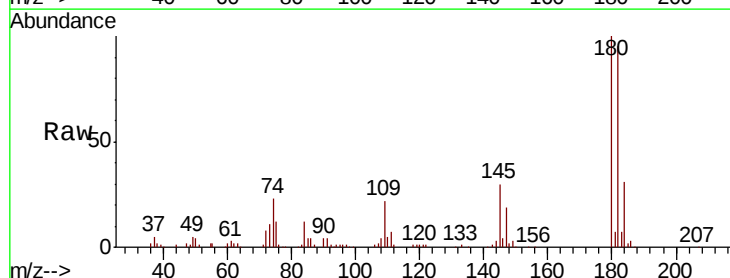
Tgt Ion:180 Resp: 140198

Ion Ratio Lower Upper

180 100

182 95.9 77.0 115.6

145 29.2 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

