

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122019\
 Data File : VU036321.D
 Acq On : 20 Dec 2019 16:40
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Quant Time: Dec 20 22:24:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 20 22:20:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	242118	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	259072	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	143350	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	111343	5.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.40%
7) Chloroethane-d5	1.93	69	97592	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.60	63	157152	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.20%
20) 2-Butanone-d5	4.68	46	195371	48.91	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.82%
24) Chloroform-d	5.11	84	170282	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.74	65	87418	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.77	84	315877	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
36) 1,2-Dichloropropane-d6	6.73	67	97583	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.93	98	299134	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.21	79	41175	4.88	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.60%
46) 2-Hexanone-d5	8.67	63	163927	50.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.56%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	92137	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	120823	4.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	132489	4.903	ug/L 99
3) Chloromethane	1.54	50	142031	4.189	ug/L 98
5) Vinyl chloride	1.62	62	149289	4.640	ug/L 97
6) Bromomethane	1.87	94	85593	5.324	ug/L 96
8) Chloroethane	1.95	64	89231	4.645	ug/L 98
9) Trichlorofluoromethane	2.16	101	208478	5.142	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	97938	5.042	ug/L 100
12) 1,1-Dichloroethene	2.61	96	88595	4.933	ug/L 93
13) Acetone	2.66	43	155512	44.673	ug/L 98
14) Carbon disulfide	2.82	76	285300	4.734	ug/L 100
15) Methyl Acetate	2.99	43	39072	5.555	ug/L 97
16) Methylene chloride	3.08	84	105519	3.996	ug/L 92
17) Methyl tert-butyl Ether	3.41	73	195532	5.080	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	93953	4.994	ug/L 95
19) 1,1-Dichloroethane	3.92	63	177669	5.116	ug/L 98
21) 2-Butanone	4.76	43	235353	50.594	ug/L 100
22) cis-1,2-Dichloroethene	4.72	96	101553	5.033	ug/L 94

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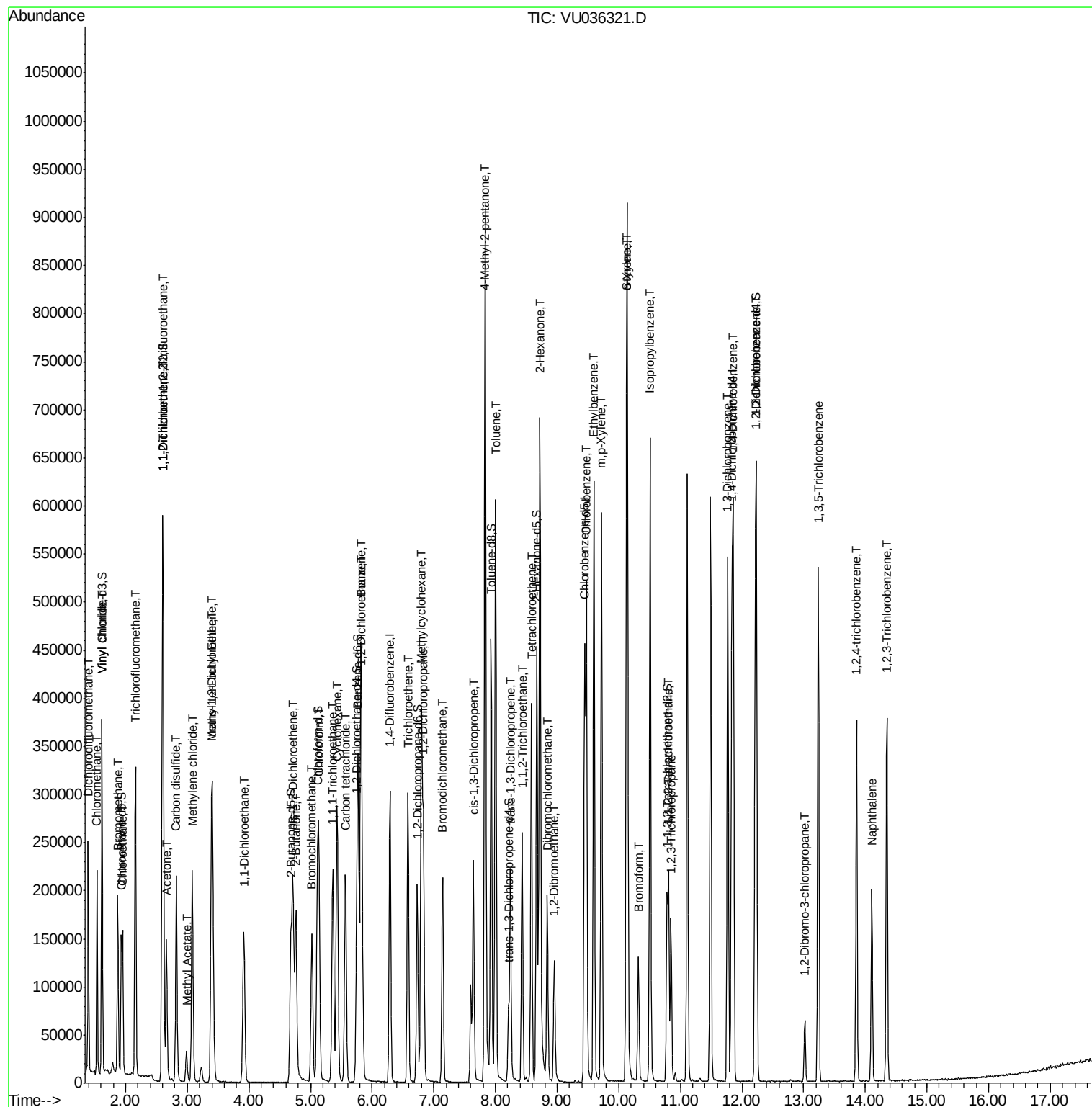
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	49915	5.112	ug/L	96
25) Chloroform	5.13	83	191806	5.105	ug/L	98
27) 1,2-Dichloroethane	5.84	62	119545	5.365	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	163206	5.117	ug/L	100
30) Cyclohexane	5.43	56	126208	4.651	ug/L	99
31) Carbon tetrachloride	5.56	117	147103	5.058	ug/L	99
33) Benzene	5.82	78	403941	5.073	ug/L	100
34) Trichloroethene	6.58	95	101556	4.947	ug/L	97
35) Methylcyclohexane	6.80	83	134670	4.614	ug/L	96
37) 1,2-Dichloropropane	6.83	63	99672	4.907	ug/L	98
38) Bromodichloromethane	7.14	83	137098	5.186	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	135177	4.884	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	567522	53.414	ug/L	99
42) Toluene	8.00	91	439701	5.152	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	122242	5.258	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	78954	5.187	ug/L	93
47) Tetrachloroethene	8.58	164	91821	4.953	ug/L	97
48) 2-Hexanone	8.72	43	435350	54.904	ug/L	99
49) Dibromochloromethane	8.84	129	98654	5.244	ug/L	97
50) 1,2-Dibromoethane	8.95	107	75623	5.209	ug/L	95
51) Chlorobenzene	9.47	112	276560	4.907	ug/L	100
52) Ethylbenzene	9.60	91	423099	4.936	ug/L	99
53) m,p-Xylene	9.72	106	170549	5.164	ug/L	99
54) o-Xylene	10.13	106	162135	5.090	ug/L	94
55) Styrene	10.14	104	280496	4.976	ug/L	100
56) Isopropylbenzene	10.51	105	412193	5.039	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	102075	5.267	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	72792	5.392	ug/L	97
61) Bromoform	10.32	173	59837	4.808	ug/L	98
62) 1,3-Dichlorobenzene	11.77	146	235937	4.879	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	232471	4.846	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	222830	4.836	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	15356	5.018	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	173656	4.792	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	122286	5.137	ug/L	100
69) Naphthalene	14.10	128	158808	5.243	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	119147	5.175	ug/L	97

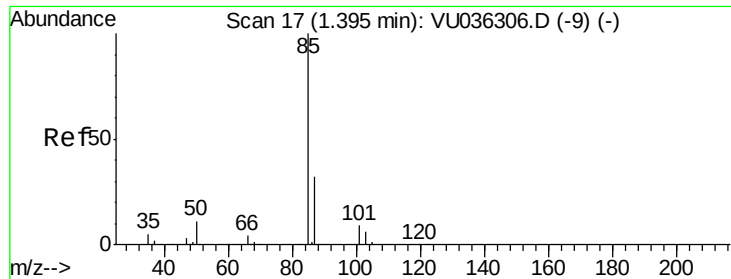
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.903 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

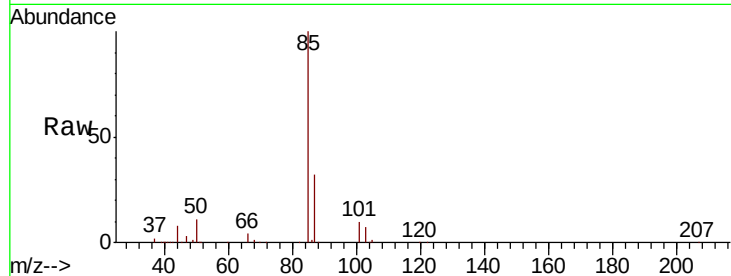
VSTD00525

Tot Ion: 85 Resp: 132489

Ion Ratio Lower Upper

85 100

87 32.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036306.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036306.D (-9) (-)

1.39

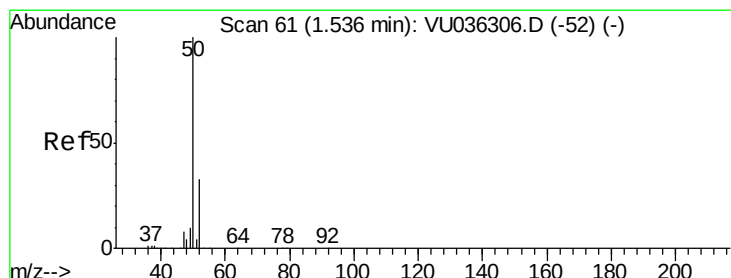
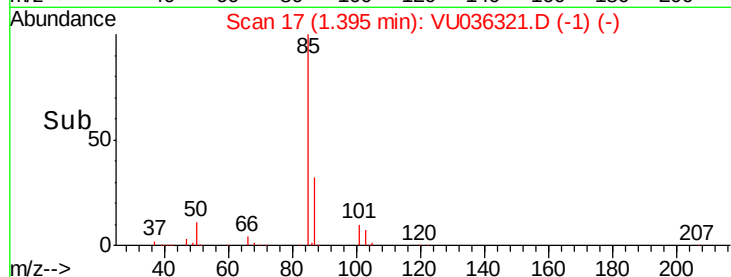
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.189 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036321.D

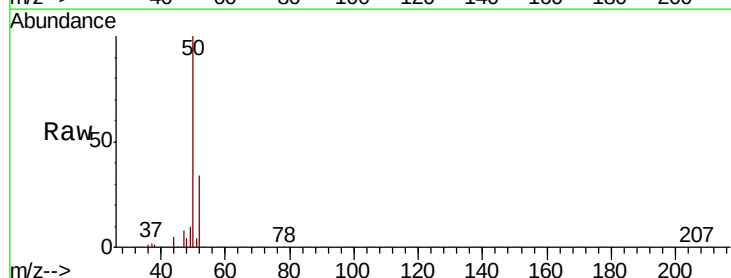
Acq: 20 Dec 2019 16:40

Tgt Ion: 50 Resp: 142031

Ion Ratio Lower Upper

50 100

52 34.0 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036306.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU036306.D (-52) (-)

1.54

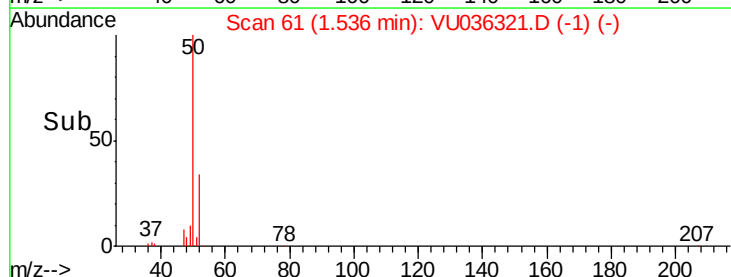
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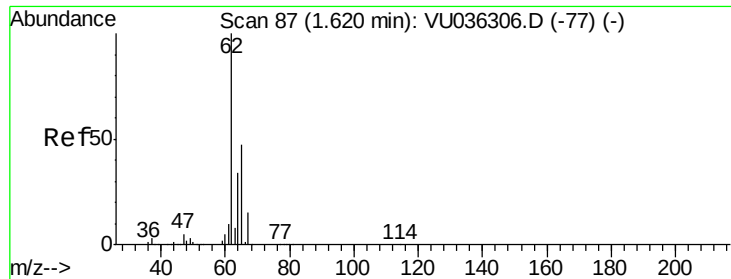
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.640 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

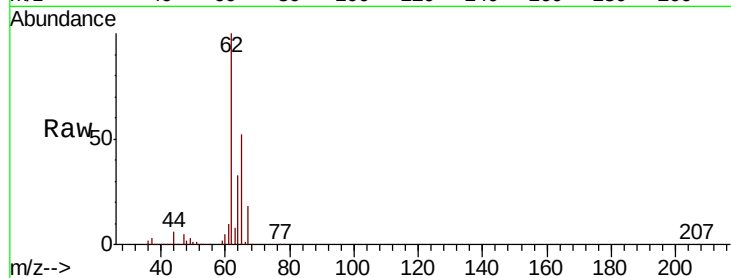
VSTD00525

Tot Ion: 62 Resp: 149289

Ion Ratio Lower Upper

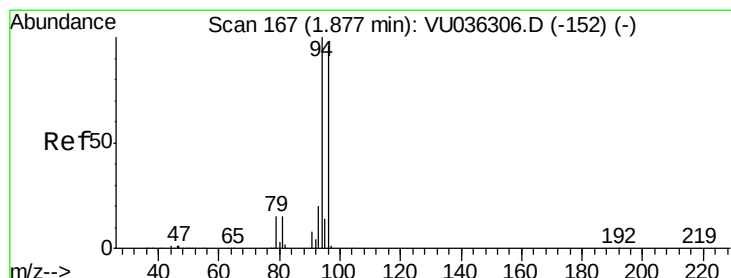
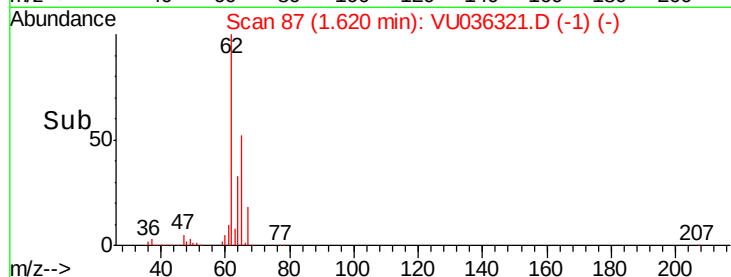
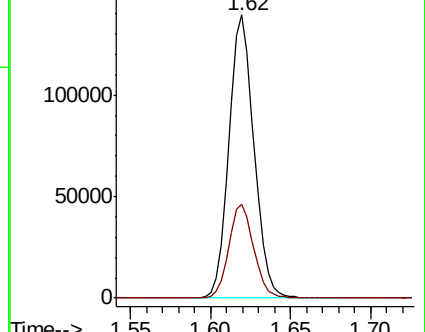
62 100

64 33.4 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU036321.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU036321.D (-77) (-)



#6

Bromomethane

Concen: 5.324 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036321.D

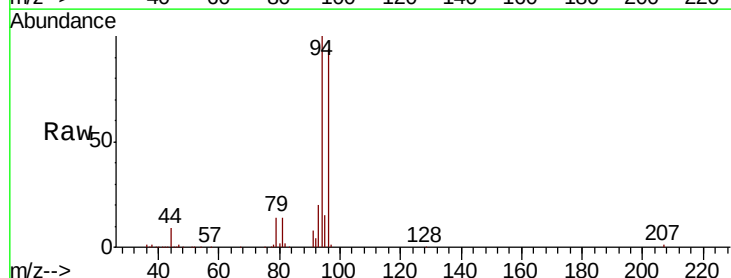
Acq: 20 Dec 2019 16:40

Tgt Ion: 94 Resp: 85593

Ion Ratio Lower Upper

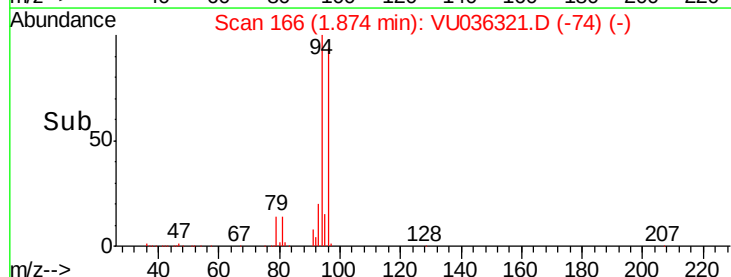
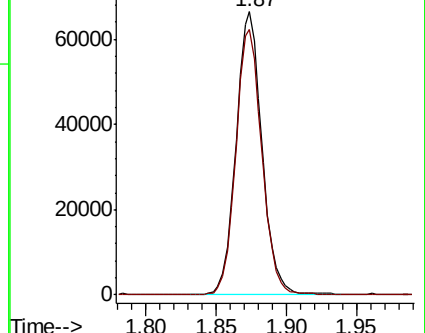
94 100

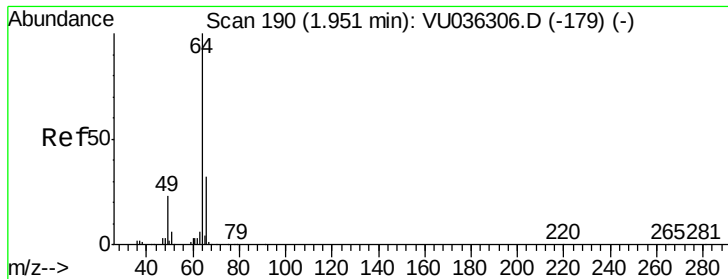
96 93.8 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU036321.D (-74) (-)

Ion 96.00 (95.70 to 96.70): VU036321.D (-74) (-)

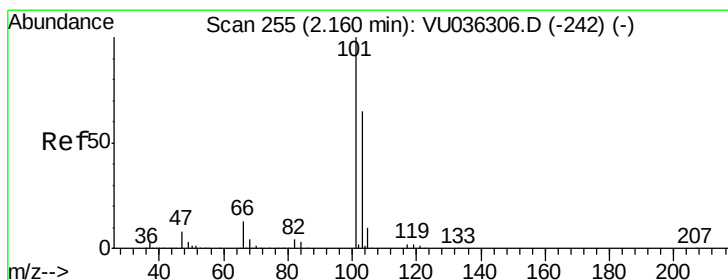
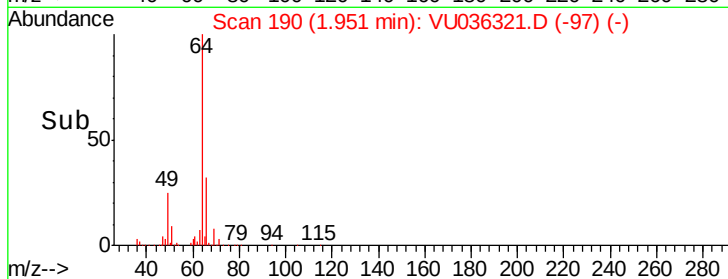
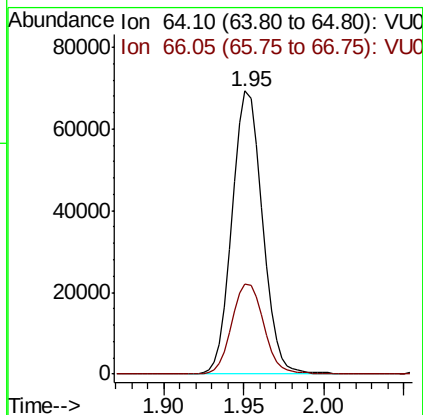
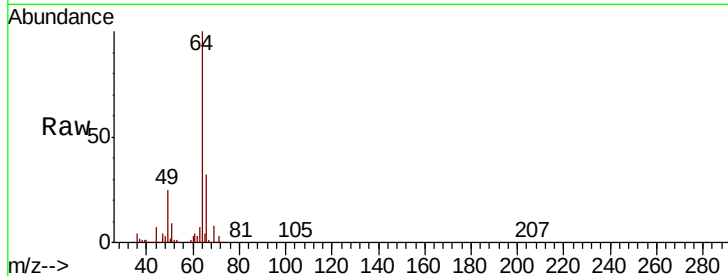




#8
Chloroethane
Concen: 4.645 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

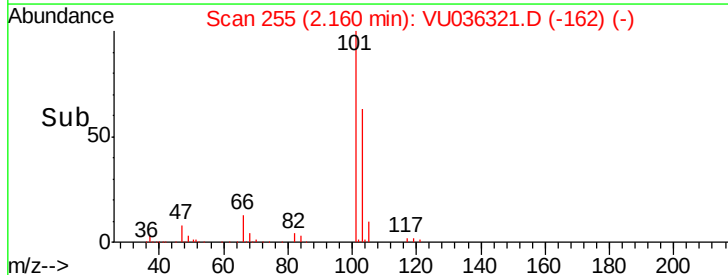
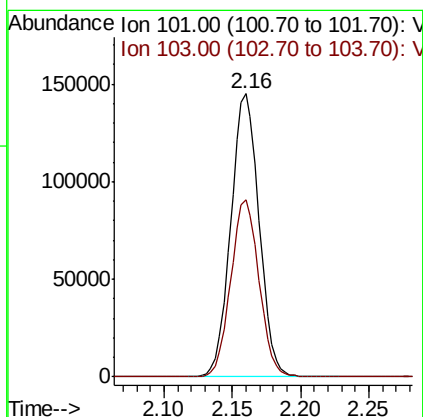
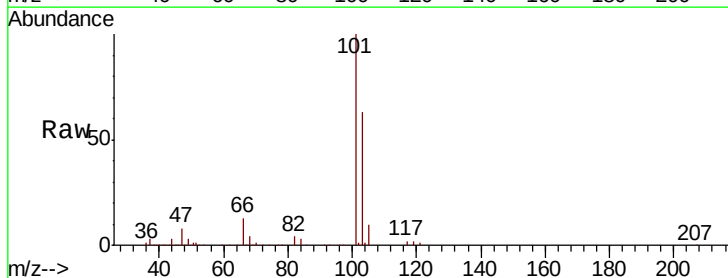
Instrument :
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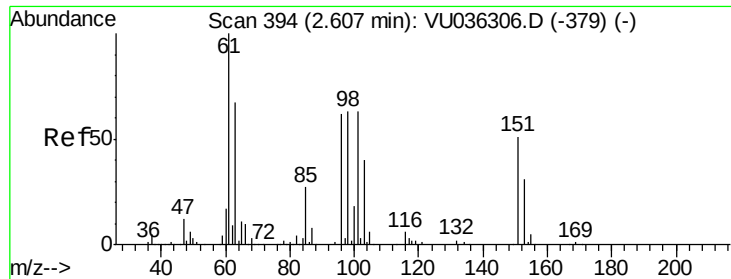
Tot Ion: 64 Resp: 89231
Ion Ratio Lower Upper
64 100
66 31.8 23.1 42.9



#9
Trichlorofluoromethane
Concen: 5.142 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

Tgt Ion: 101 Resp: 208478
Ion Ratio Lower Upper
101 100
103 62.6 50.4 75.6





#10

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

Concen: 5.042 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

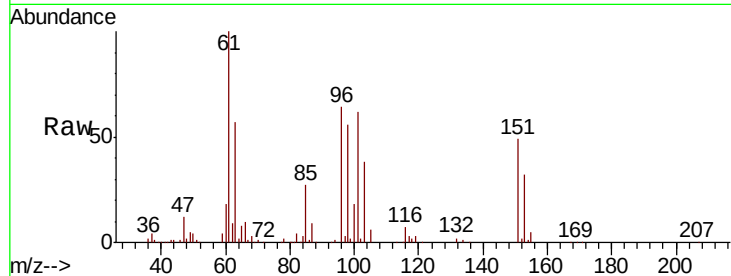
Tot Ion:101 Resp: 97938

Ion Ratio Lower Upper

101 100

85 44.3 35.0 52.6

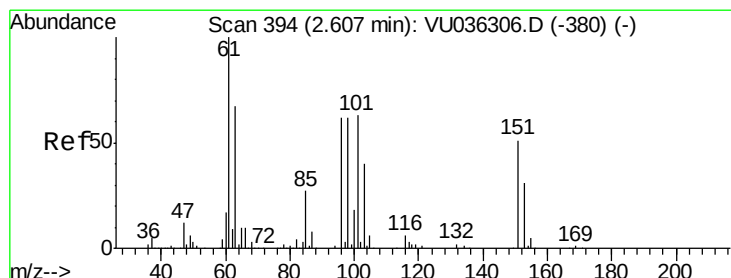
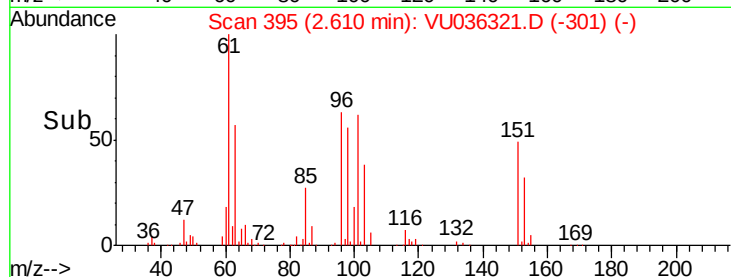
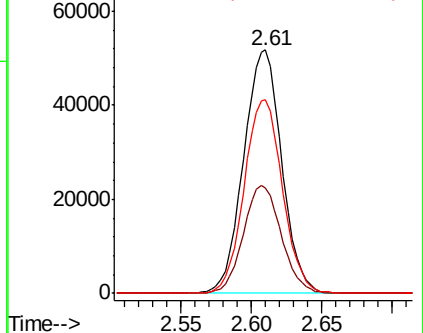
151 80.1 63.9 95.9



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: 4.933 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

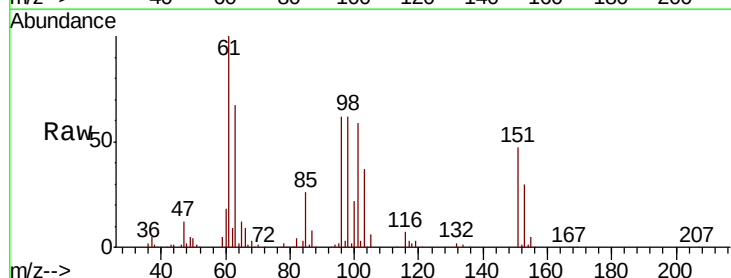
Tgt Ion: 96 Resp: 88595

Ion Ratio Lower Upper

96 100

61 161.1 114.0 211.8

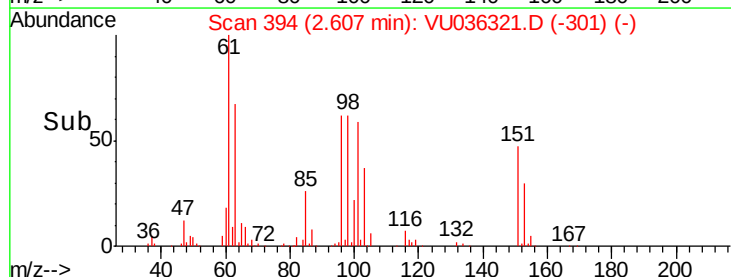
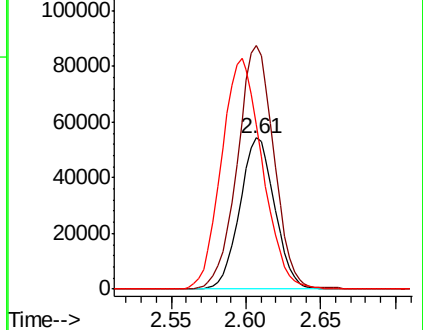
63 108.3 63.6 118.0

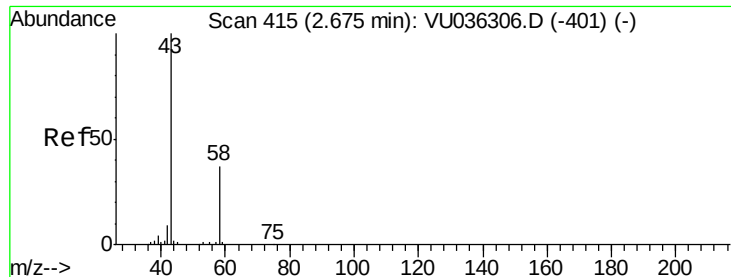


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.673 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

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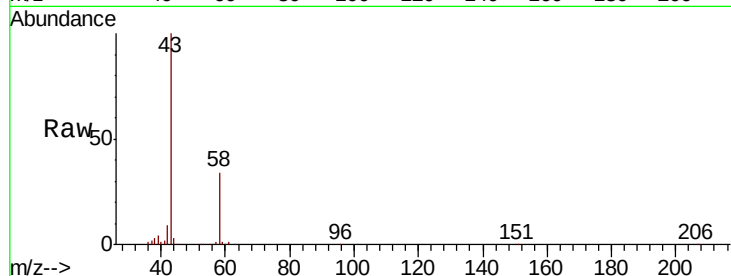
VSTD00525

Tot Ion: 43 Resp: 155512

Ion Ratio Lower Upper

43 100

58 34.8 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036306.D (-401) (-)

Ion 58.05 (57.75 to 58.75): VU036306.D (-401) (-)

2.66

100000

80000

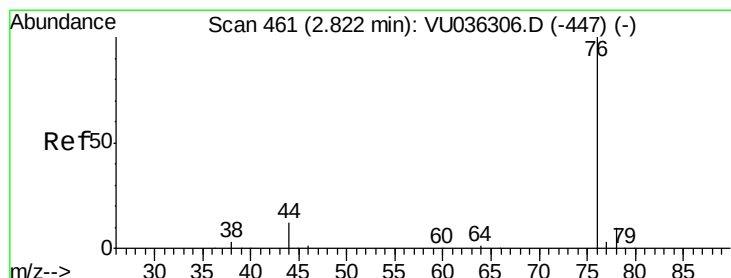
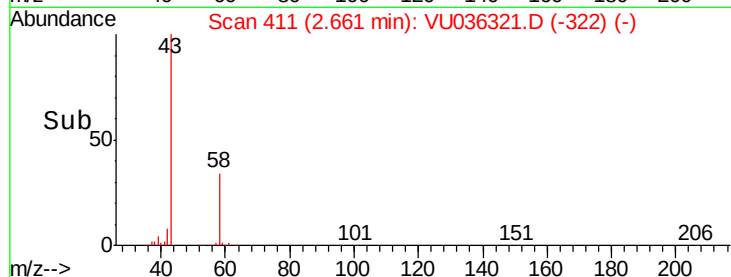
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 4.734 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036321.D

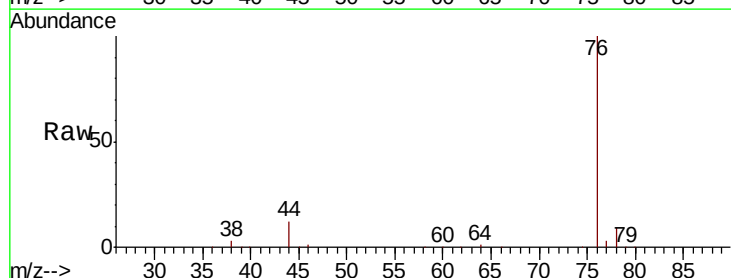
Acq: 20 Dec 2019 16:40

Tgt Ion: 76 Resp: 285300

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036306.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU036306.D (-447) (-)

2.82

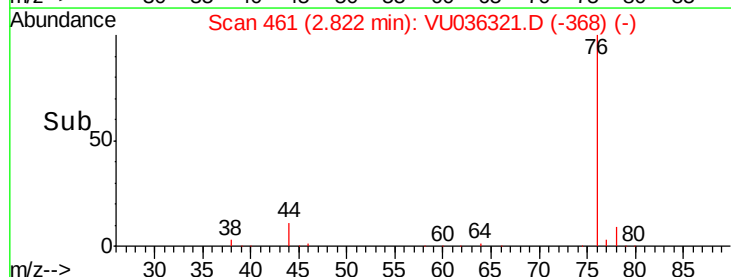
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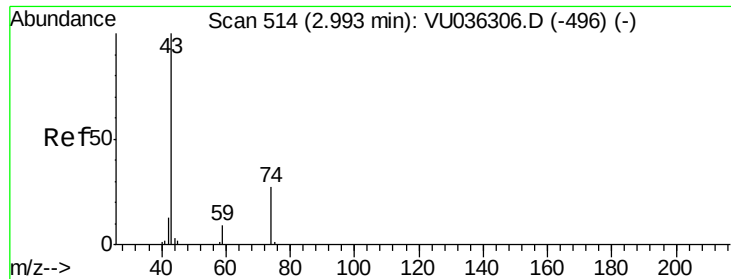
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50000

0

Time-->

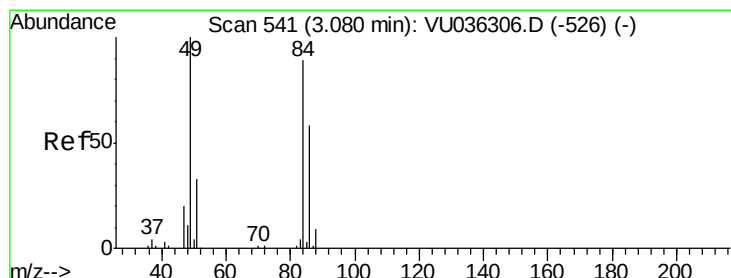
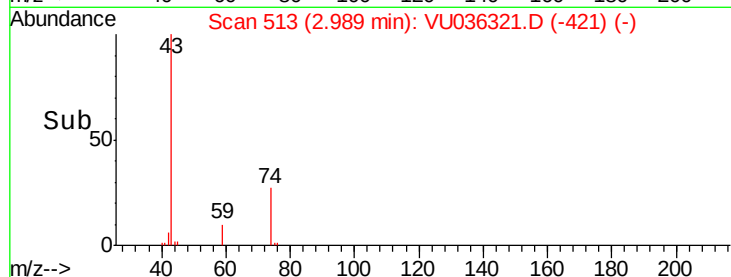
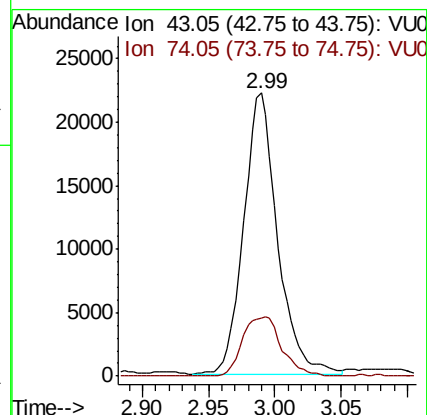
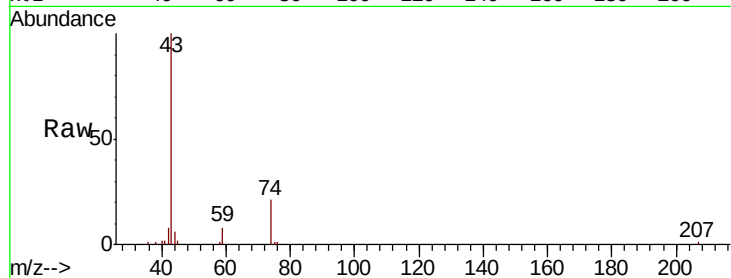




#15
Methvl Acetate
Concen: 5.555 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

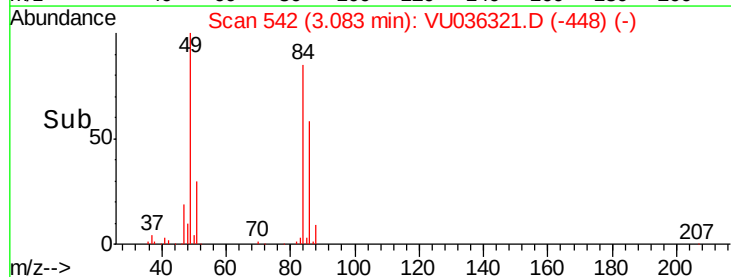
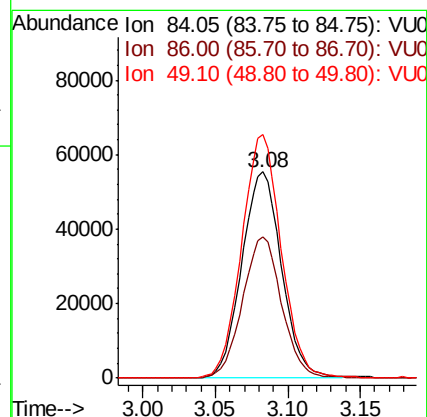
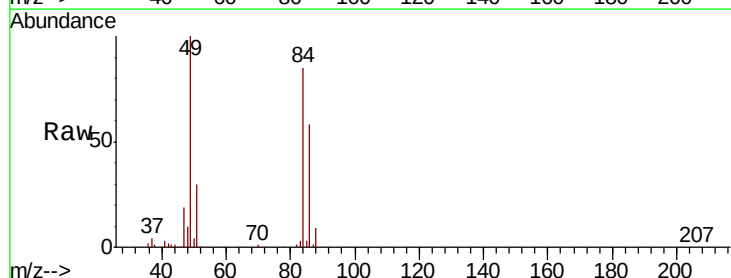
Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

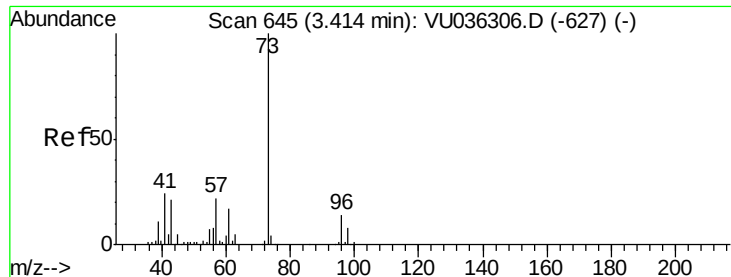
Tot Ion: 43 Resp: 39072
Ion Ratio Lower Upper
43 100
74 24.5 20.8 31.2



#16
Methylene chloride
Concen: 3.996 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

Tgt Ion: 84 Resp: 105519
Ion Ratio Lower Upper
84 100
86 68.6 43.0 79.8
49 118.0 77.3 143.5





#17

Methyl tert-butyl Ether

Concen: 5.080 ug/L

RT: 3.41 min Scan# 645

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

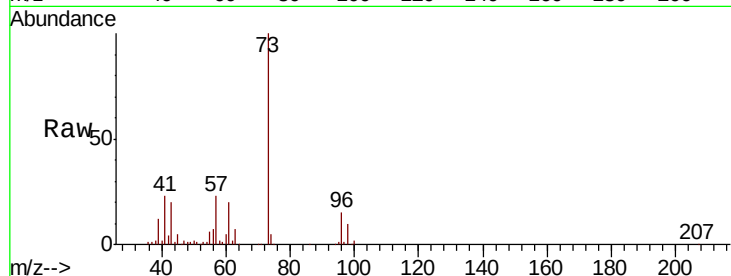
Tot Ion: 73 Resp: 195532

Ion Ratio Lower Upper

73 100

43 20.2 15.3 22.9

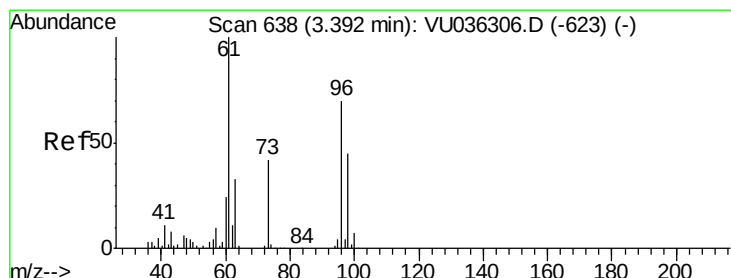
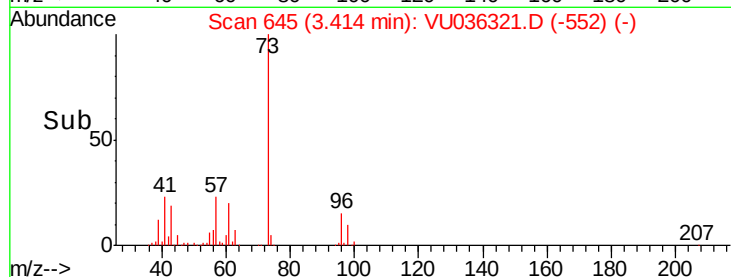
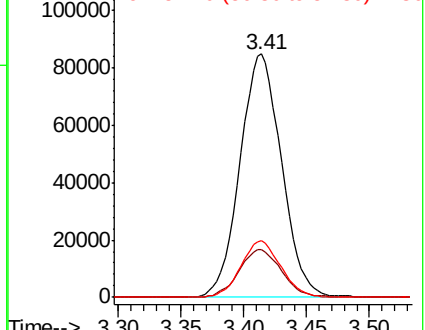
57 22.4 18.2 27.2



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: 4.994 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

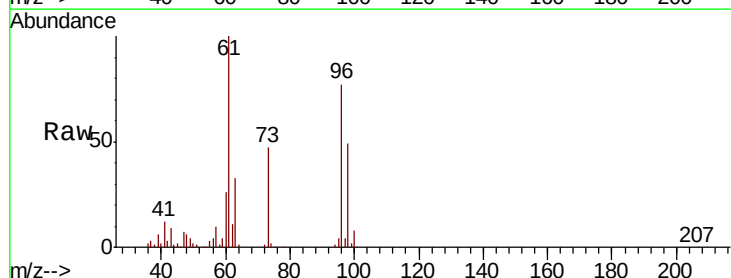
Tgt Ion: 96 Resp: 93953

Ion Ratio Lower Upper

96 100

61 129.3 94.8 176.2

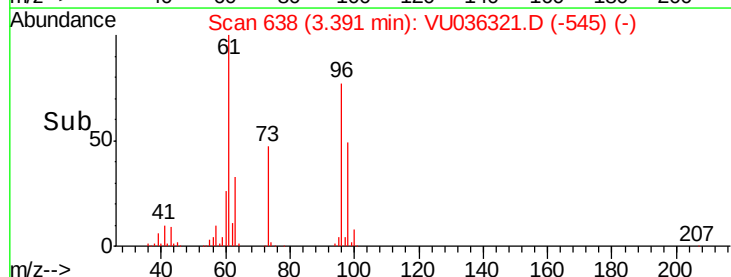
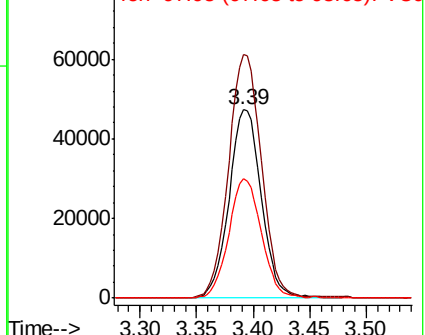
98 63.2 46.8 86.8

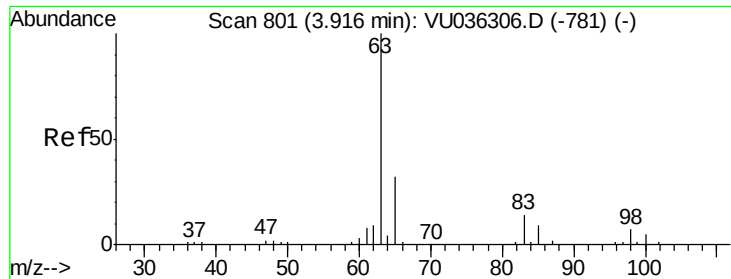


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

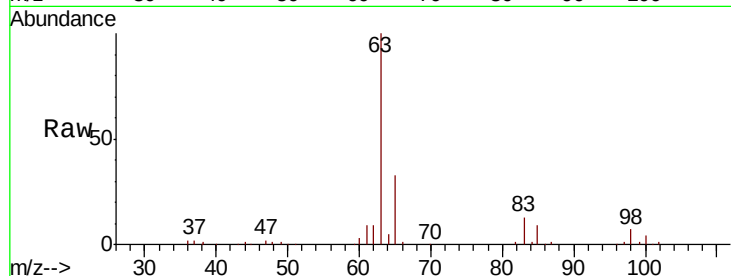




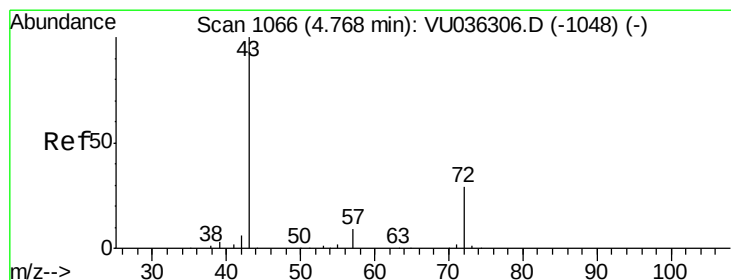
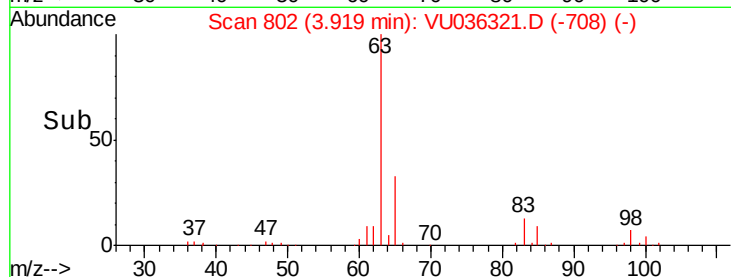
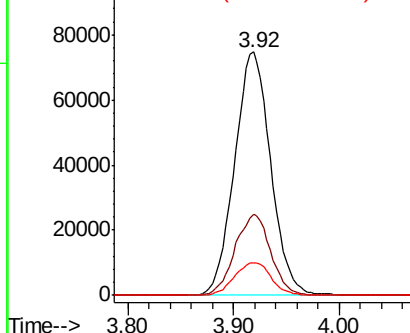
#19
 1,1-Dichloroethane
 Concen: 5.116 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion: 63 Resp: 177669
 Ion Ratio Lower Upper
 63 100
 65 33.4 22.6 42.0
 83 13.3 9.7 18.1

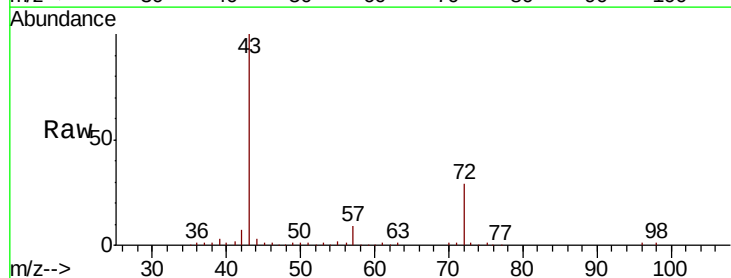


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

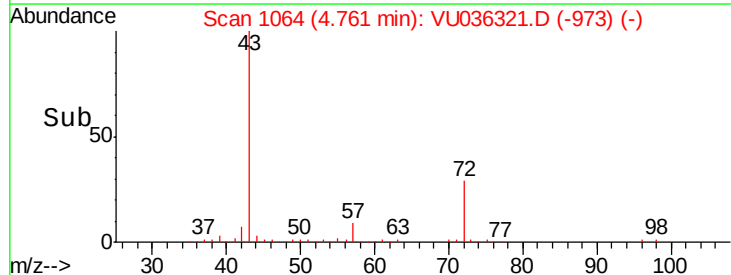
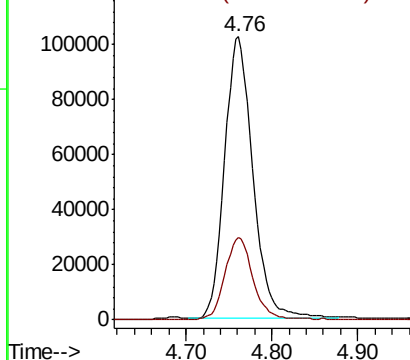


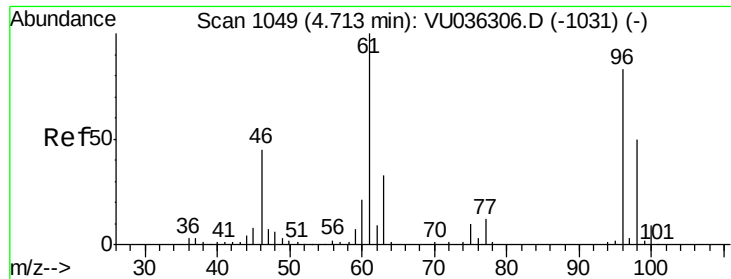
#21
 2-Butanone
 Concen: 50.594 ug/L
 RT: 4.76 min Scan# 1064
 Delta R.T. -0.01 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion: 43 Resp: 235353
 Ion Ratio Lower Upper
 43 100
 72 28.8 14.4 43.4



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0

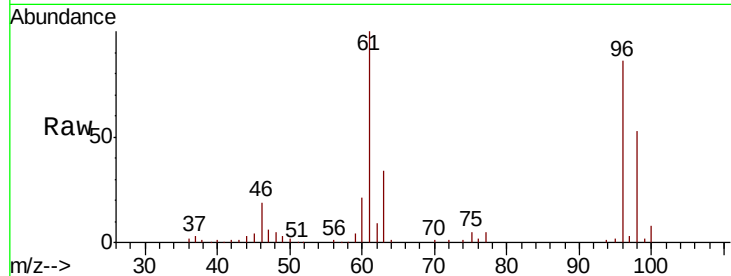




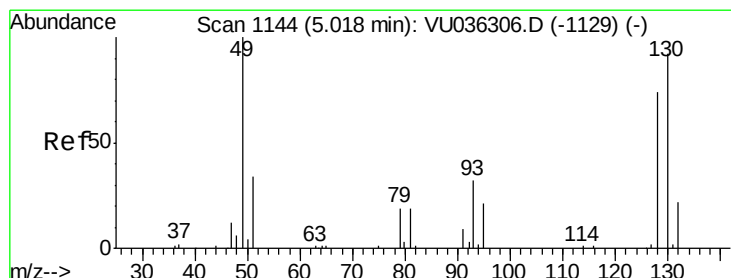
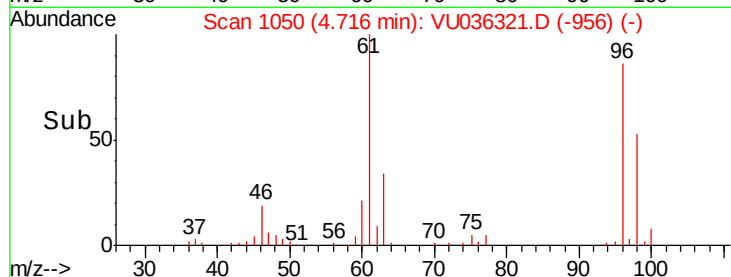
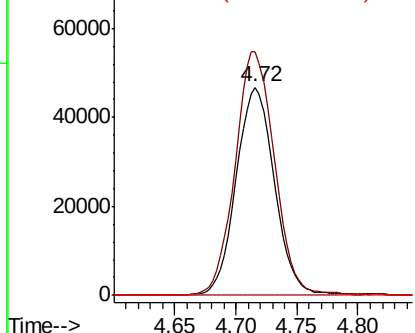
#22
 cis-1,2-Dichloroethene
 Concen: 5.033 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion: 96 Resp: 101553
 Ion Ratio Lower Upper
 96 100
 61 116.9 86.7 161.1
 68 0.0 0.0 0.0

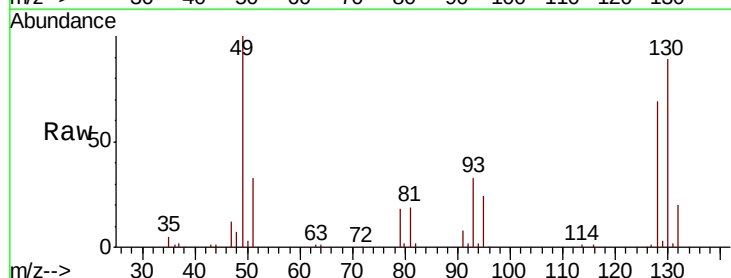


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

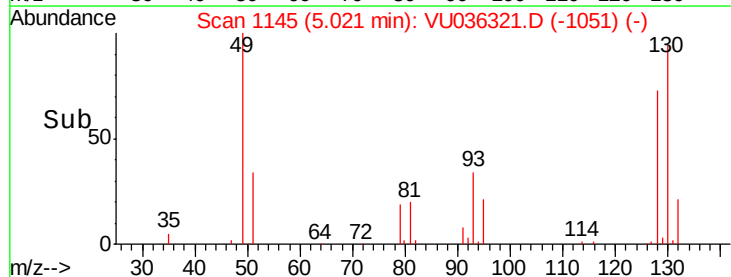
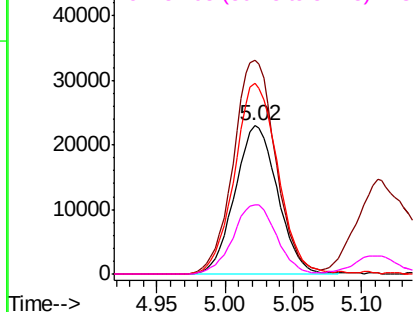


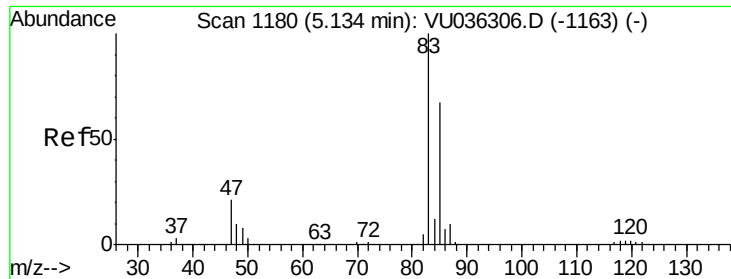
#23
 Bromochloromethane
 Concen: 5.112 ug/L
 RT: 5.02 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion: 128 Resp: 49915
 Ion Ratio Lower Upper
 128 100
 49 143.9 97.6 181.4
 130 128.7 85.9 159.5
 51 46.9 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: 5.105 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

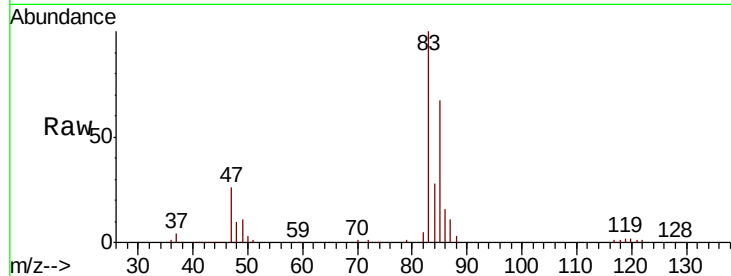
VSTD00525

Tot Ion: 83 Resp: 191806

Ion Ratio Lower Upper

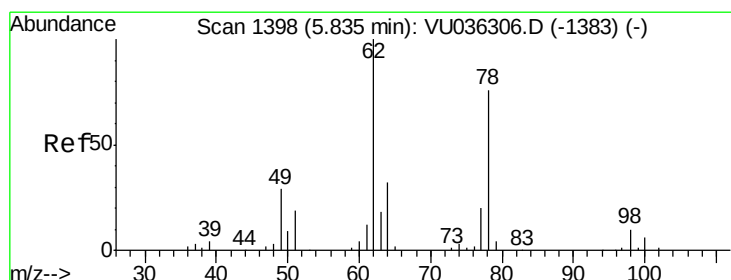
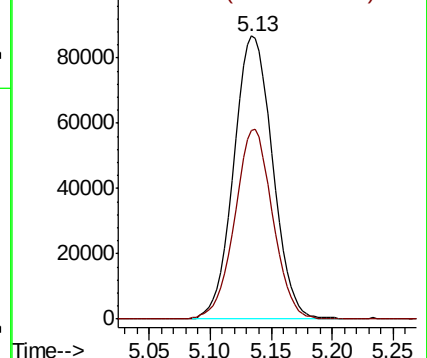
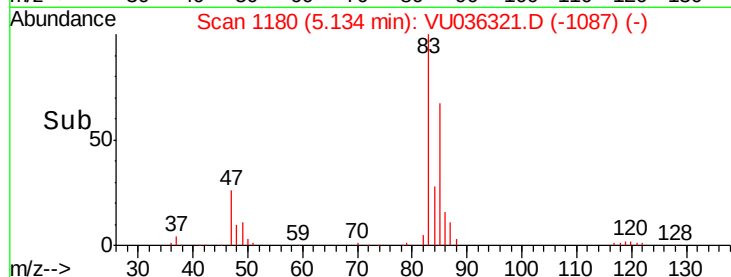
83 100

85 66.5 47.5 88.1



Abundance Ion 83.05 (82.75 to 83.75): VU036321.D (-1087) (-)

Ion 85.00 (84.70 to 85.70): VU036321.D (-1087) (-)



#27

1,2-Dichloroethane

Concen: 5.365 ug/L

RT: 5.84 min Scan# 1399

Delta R.T. 0.00 min

Lab File: VU036321.D

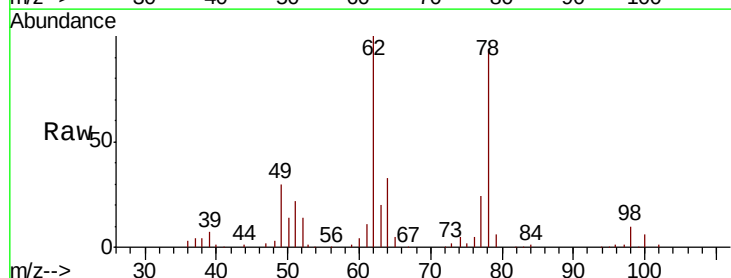
Acq: 20 Dec 2019 16:40

Tgt Ion: 62 Resp: 119545

Ion Ratio Lower Upper

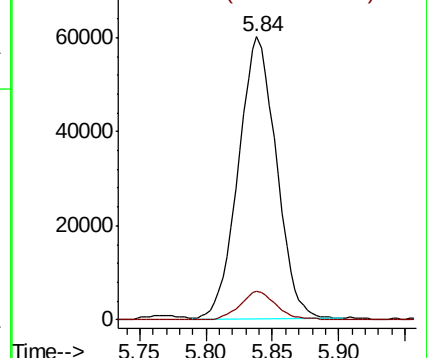
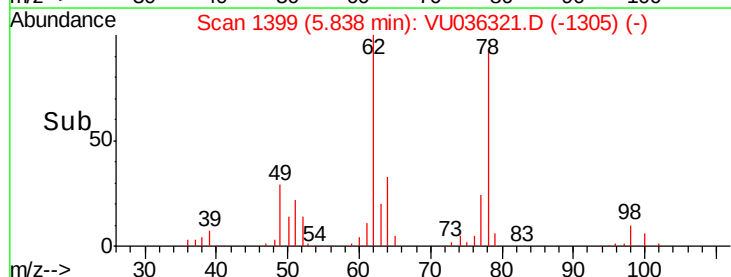
62 100

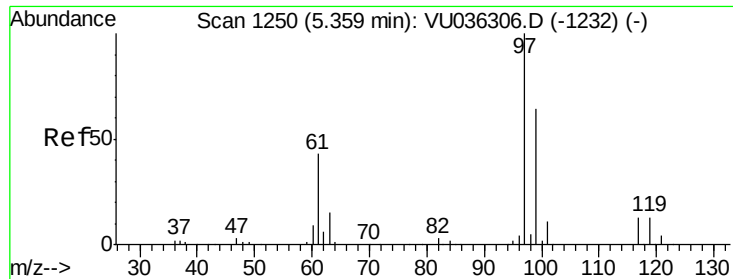
98 10.2 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU036321.D (-1305) (-)

Ion 98.05 (97.75 to 98.75): VU036321.D (-1305) (-)

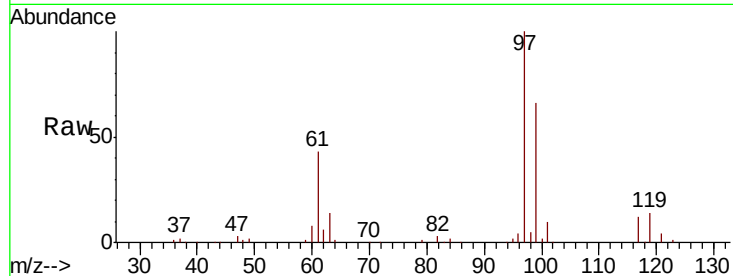




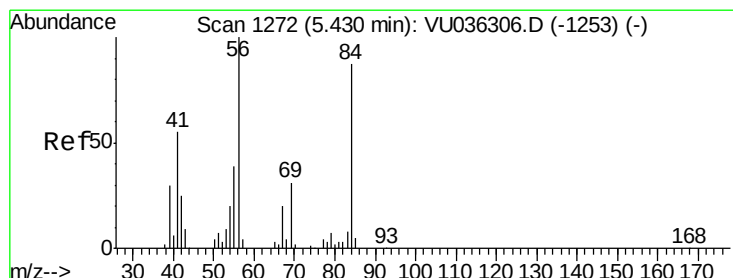
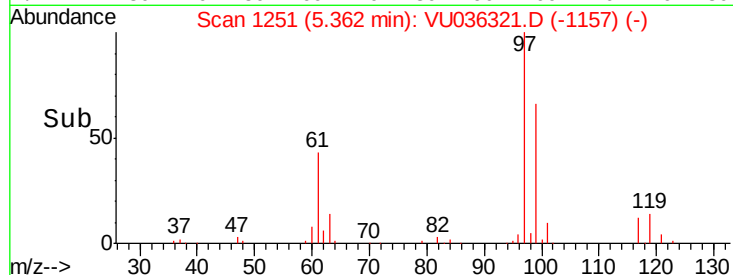
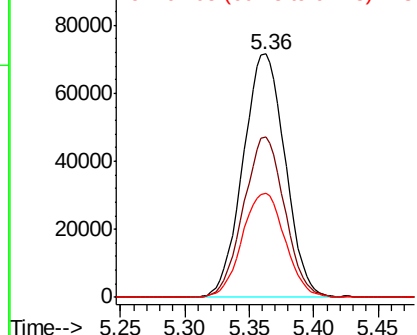
#29
 1,1,1-Trichloroethane
 Concen: 5.117 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion: 97 Resp: 163206
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.4 77.2
 61 43.7 35.0 52.6

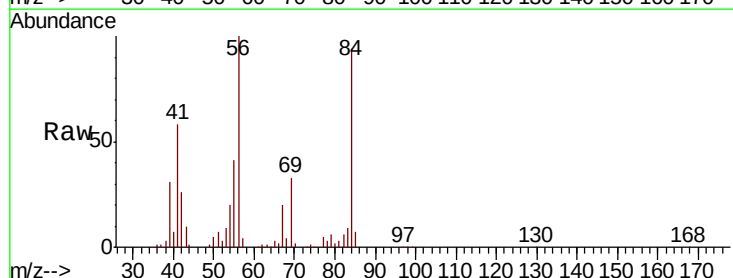


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

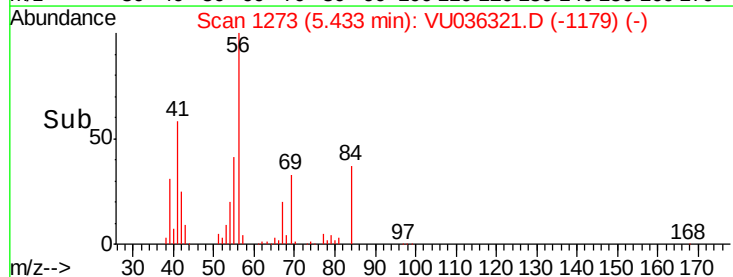
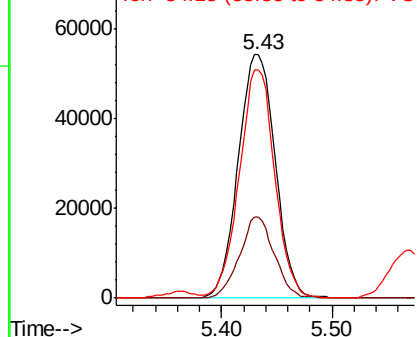


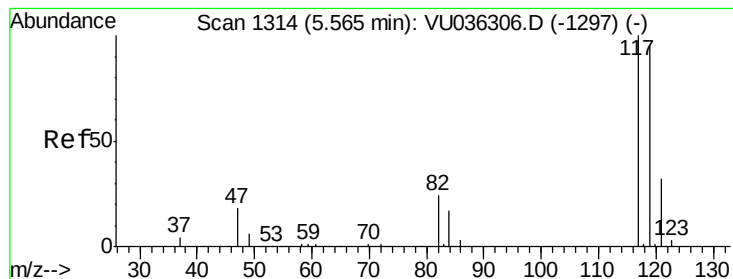
#30
 Cyclohexane
 Concen: 4.651 ug/L
 RT: 5.43 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion: 56 Resp: 126208
 Ion Ratio Lower Upper
 56 100
 69 31.3 25.6 38.4
 84 90.1 73.0 109.4



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: 5.058 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

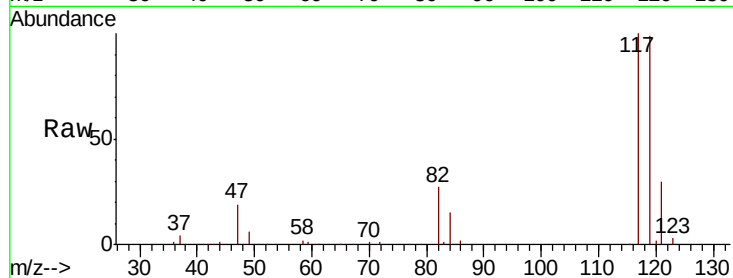
VSTD00525

Tot Ion:117 Resp: 147103

Ion Ratio Lower Upper

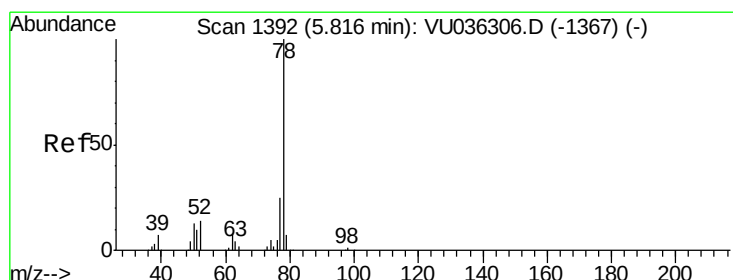
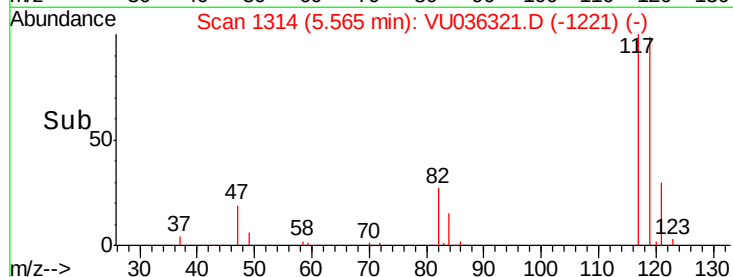
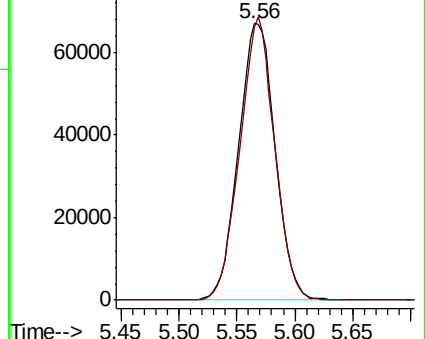
117 100

119 97.1 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: 5.073 ug/L

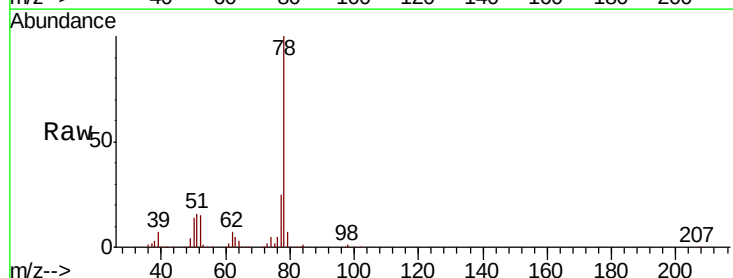
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

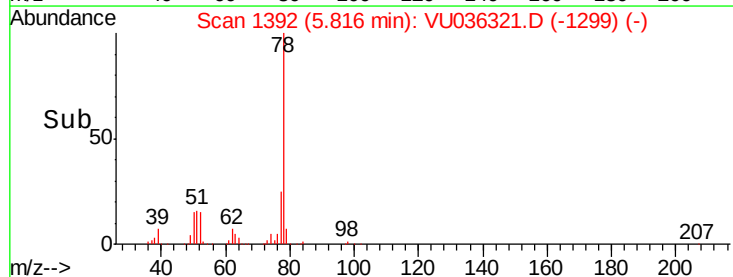
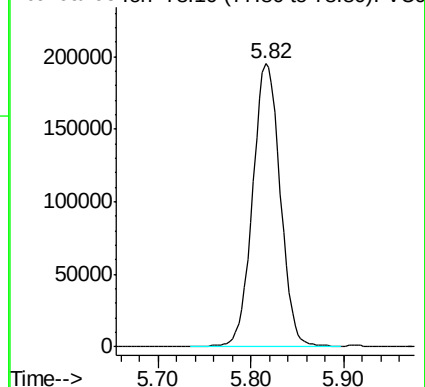
Lab File: VU036321.D

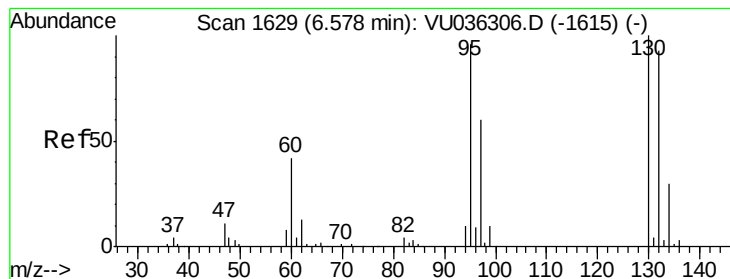
Acq: 20 Dec 2019 16:40

Tgt Ion: 78 Resp: 403941



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.947 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

Tot Ion: 95 Resp: 101556

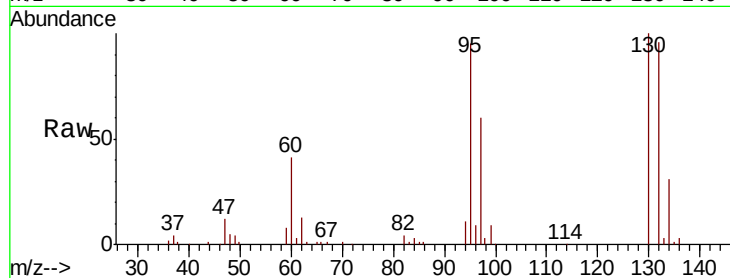
Ion Ratio Lower Upper

95 100

97 63.5 43.6 81.0

132 100.9 69.6 129.2

130 105.4 70.3 130.7

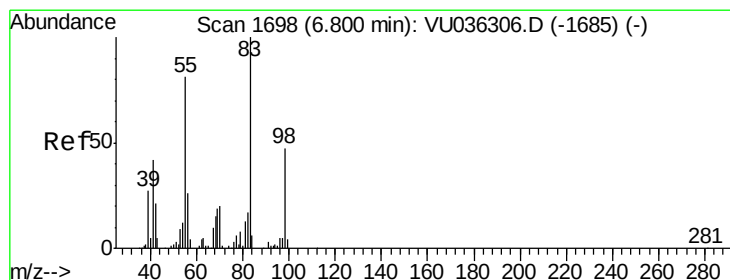
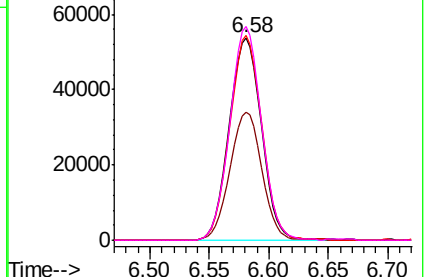
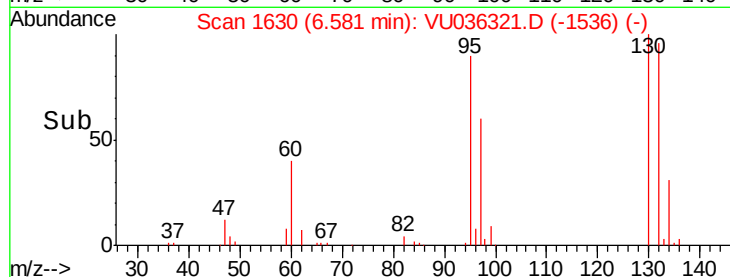


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.614 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

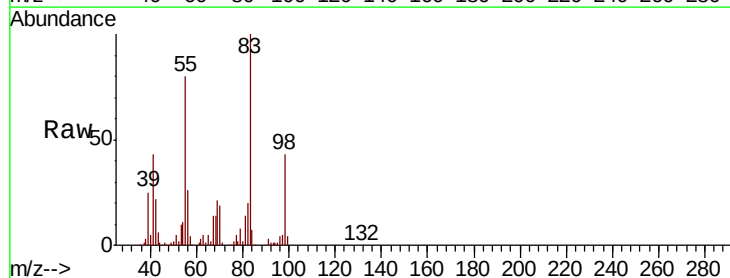
Tgt Ion: 83 Resp: 134670

Ion Ratio Lower Upper

83 100

55 82.8 62.6 94.0

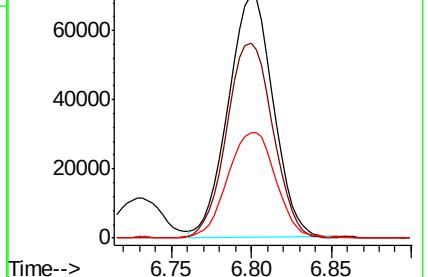
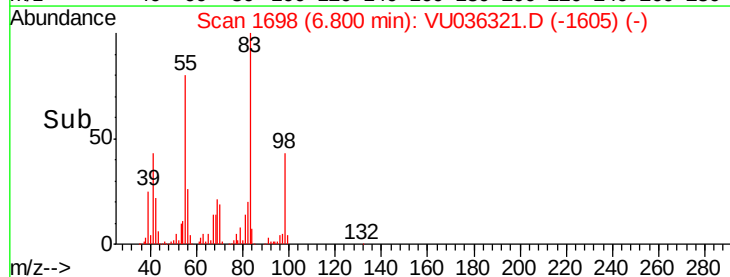
98 46.8 36.2 54.2

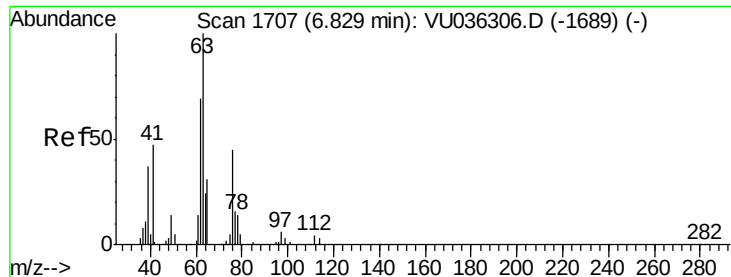


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

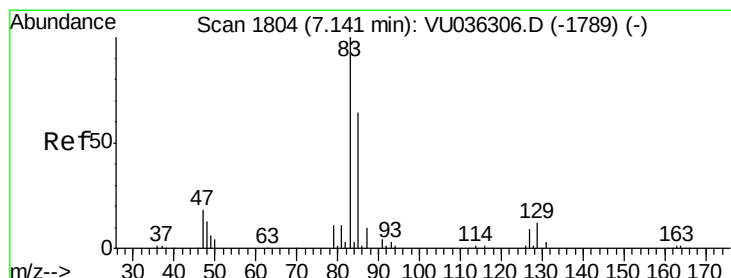
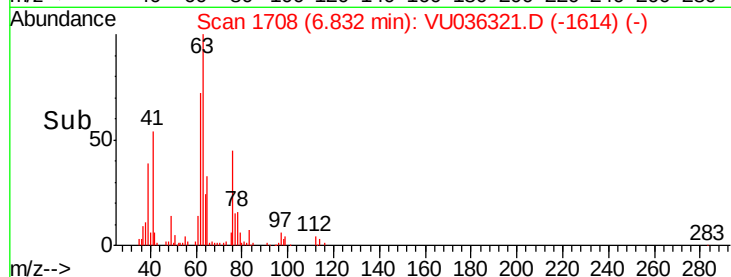
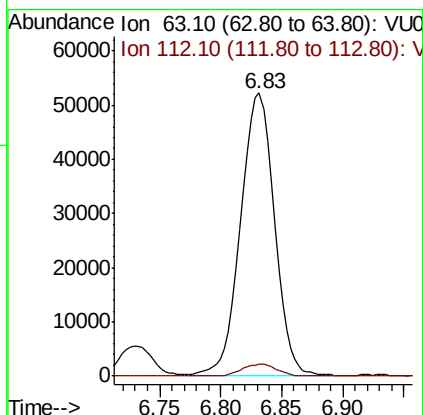
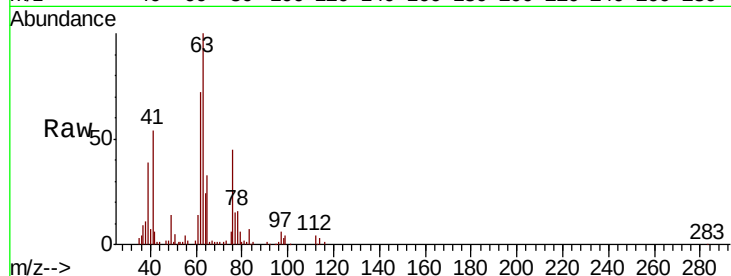




#37
 1,2-Dichloropropane
 Concen: 4.907 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

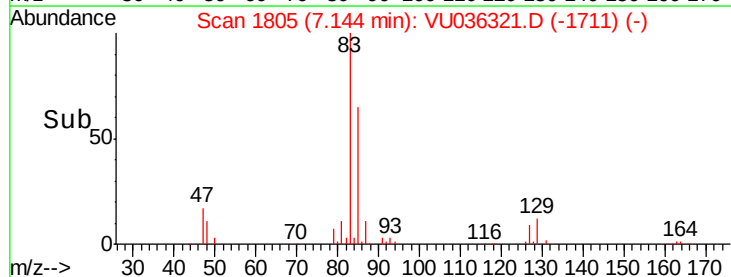
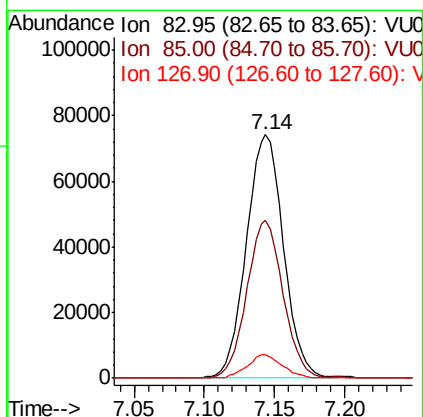
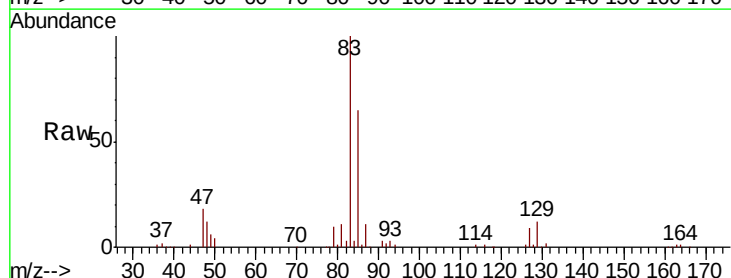
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

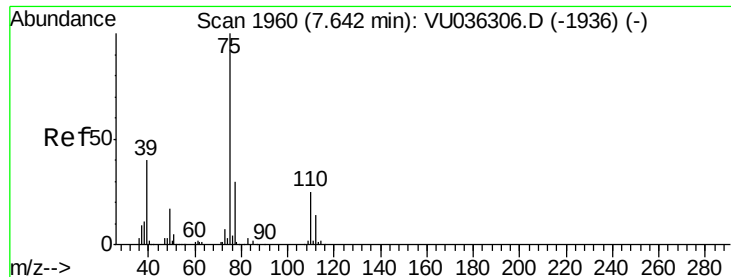
Tot Ion: 63 Resp: 99672
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.8 5.8



#38
 Bromodichloromethane
 Concen: 5.186 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion: 83 Resp: 137098
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.6 84.6
 127 9.4 7.1 10.7



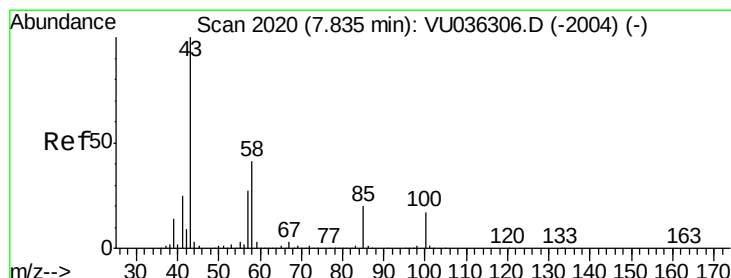
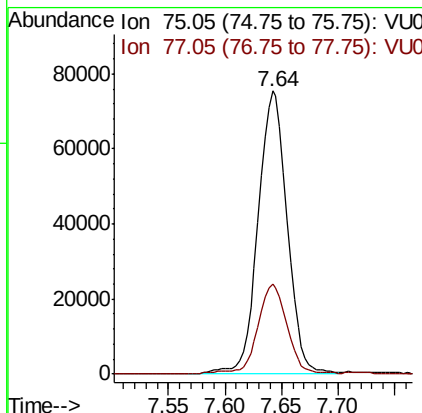
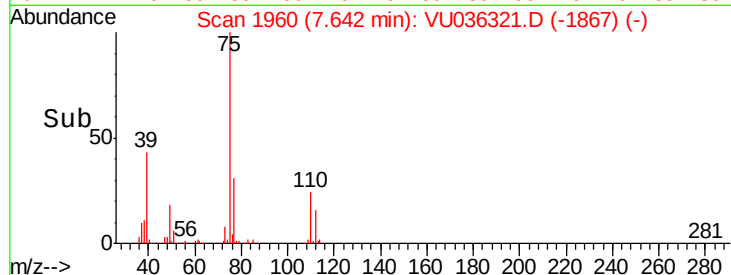
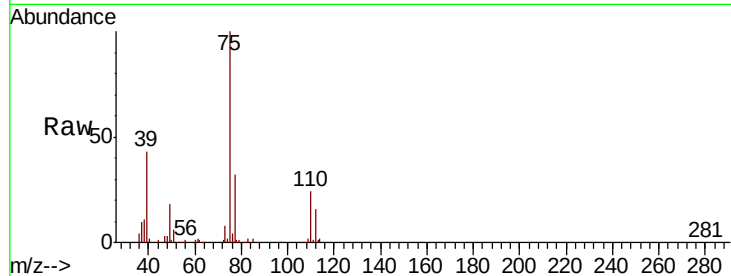


#39

cis-1,3-Dichloropropene
 Concen: 4.884 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

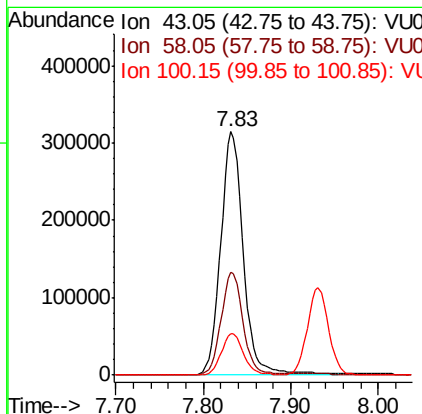
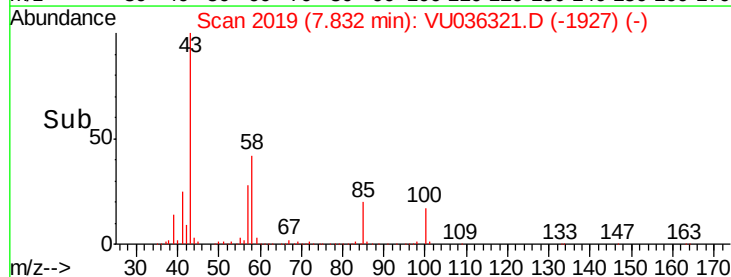
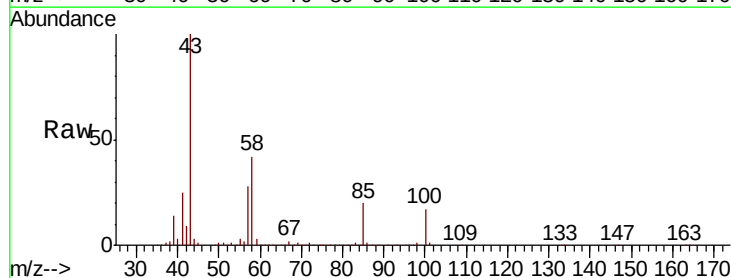
Tot Ion: 75 Resp: 135177
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.7 42.1

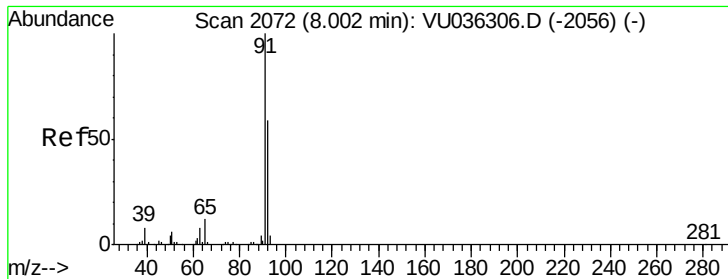


#40

4-Methyl-2-pentanone
 Concen: 53.414 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion: 43 Resp: 567522
 Ion Ratio Lower Upper
 43 100
 58 40.8 33.3 49.9
 100 16.7 13.7 20.5





#42

Toluene

Concen: 5.152 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

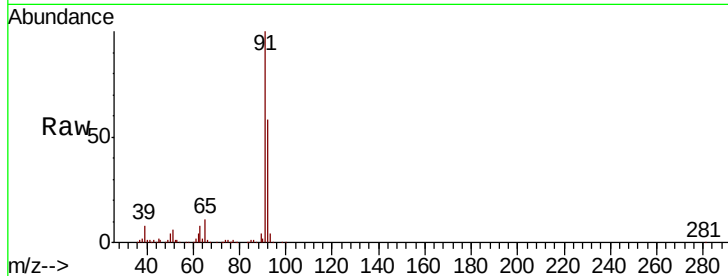
VSTD00525

Tot Ion: 91 Resp: 439701

Ion Ratio Lower Upper

91 100

92 58.4 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036321.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU036321.D (-1979) (-)

8.00

250000

200000

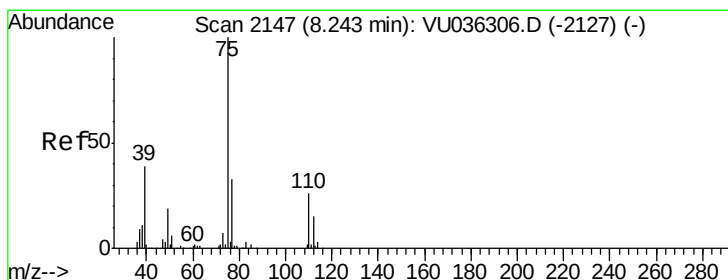
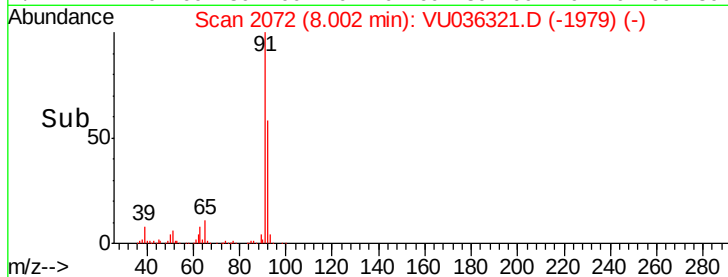
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#44

trans-1,3-Dichloropropene

Concen: 5.258 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036321.D

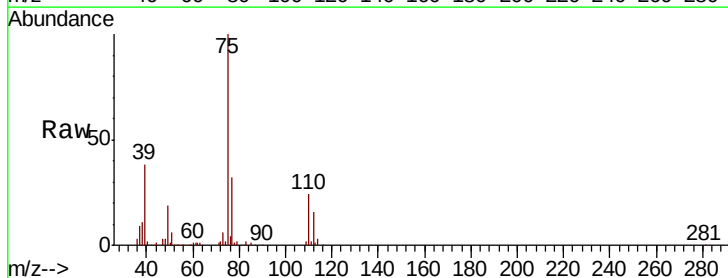
Acq: 20 Dec 2019 16:40

Tgt Ion: 75 Resp: 122242

Ion Ratio Lower Upper

75 100

77 32.2 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU036321.D (-2054) (-)

Ion 77.05 (76.75 to 77.75): VU036321.D (-2054) (-)

8.24

80000

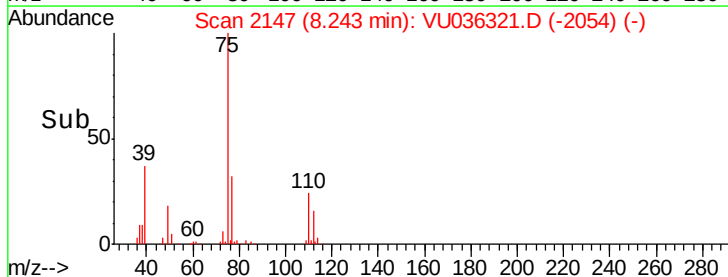
60000

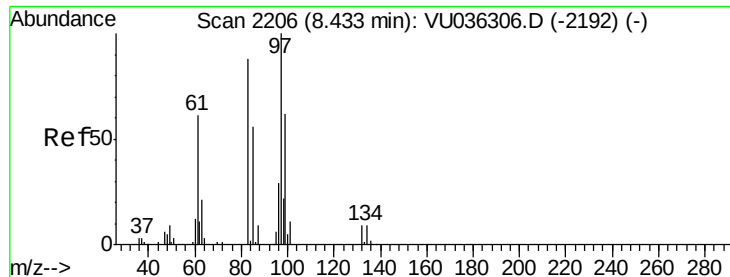
40000

20000

0

Time--> 8.15 8.20 8.25 8.30

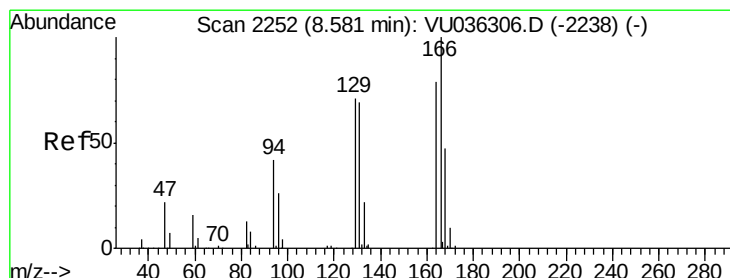
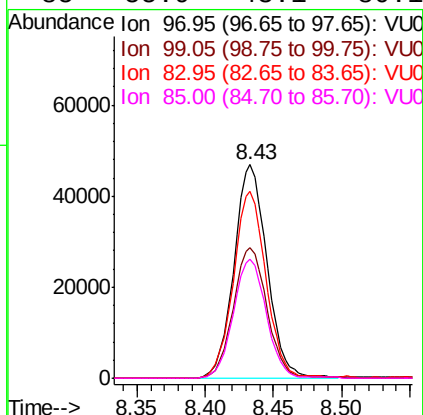
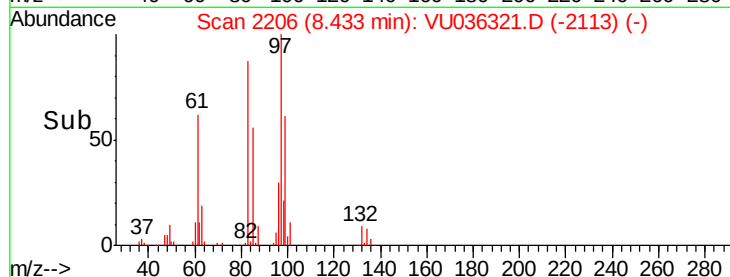
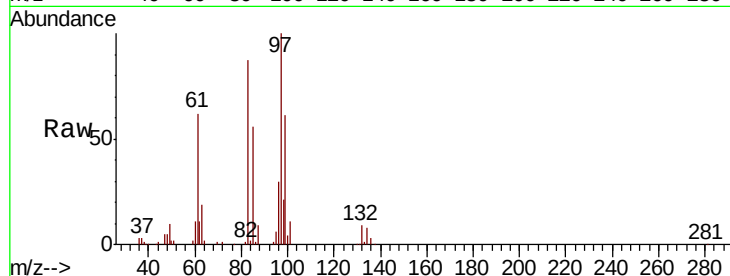




#45
 1,1,2-Trichloroethane
 Concen: 5.187 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

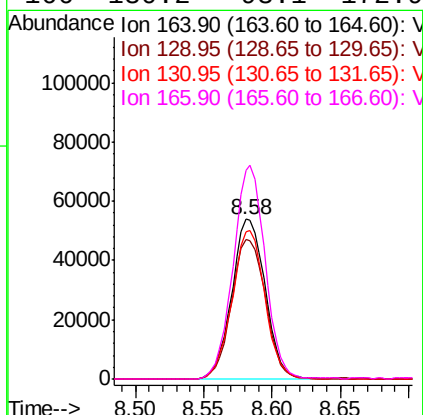
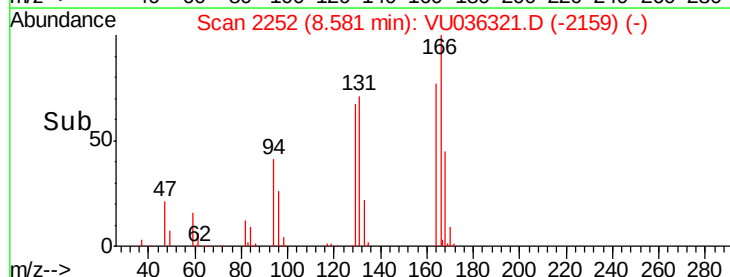
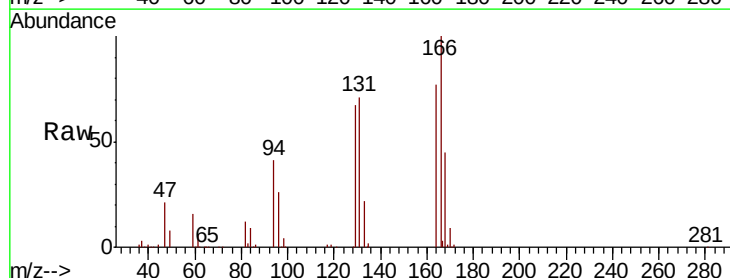
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

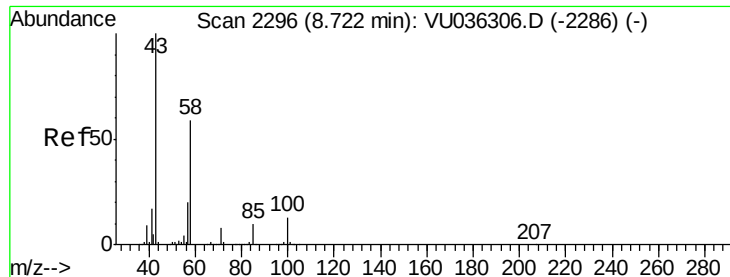
Tot Ion:	97	Resp:	78954
Ion	Ratio	Lower	Upper
97	100		
99	61.2	46.1	85.5
83	87.3	65.9	122.3
85	55.9	43.1	80.1



#47
 Tetrachloroethene
 Concen: 4.953 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion:	164	Resp:	91821
Ion	Ratio	Lower	Upper
164	100		
129	87.3	64.2	119.2
131	92.0	66.6	123.8
166	130.2	93.1	172.9

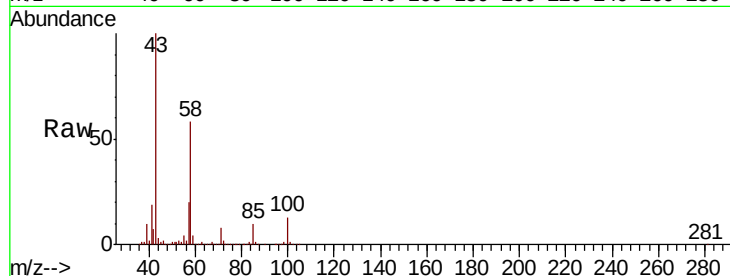




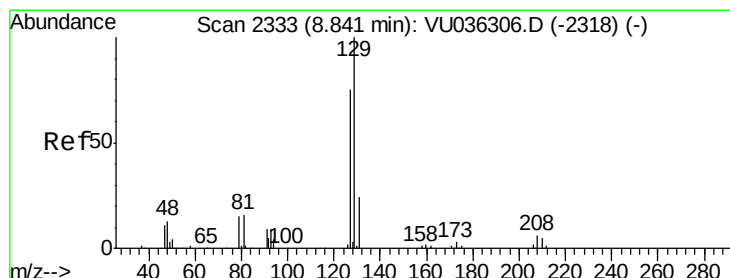
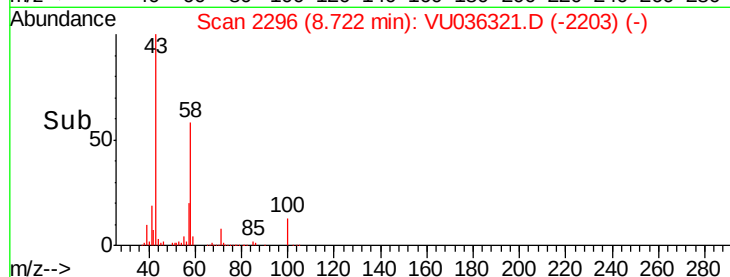
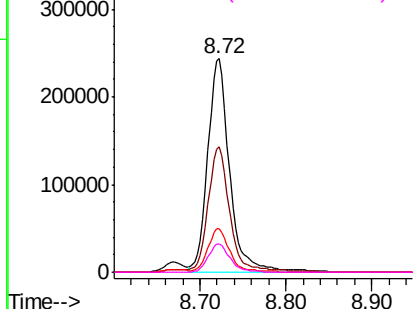
#48
2-Hexanone
Concen: 54.904 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

Tot Ion: 43 Resp: 435350
Ion Ratio Lower Upper
43 100
58 58.5 46.2 69.2
57 20.3 16.2 24.4
100 12.9 10.2 15.4

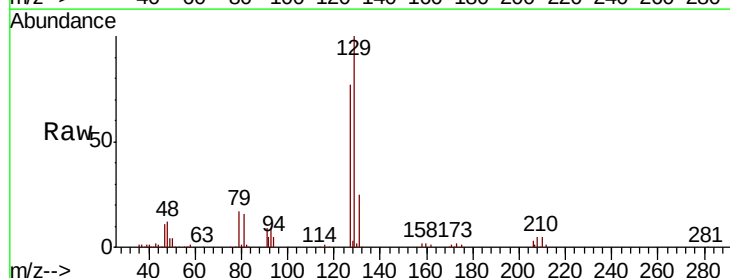


Abundance Ion 43.05 (42.75 to 43.75): VU036321.D (-2203) (-)
Ion 58.05 (57.75 to 58.75): VU036321.D (-2203) (-)
Ion 57.20 (56.90 to 57.90): VU036321.D (-2203) (-)
Ion 100.15 (99.85 to 100.85): VU036321.D (-2203) (-)

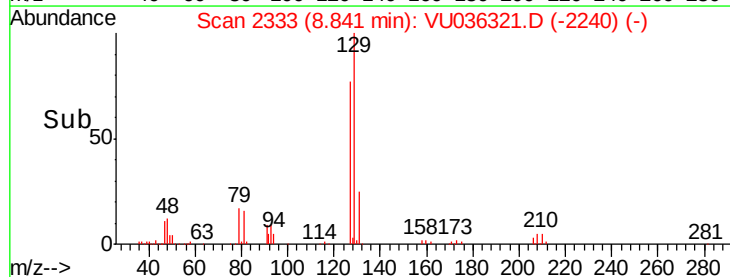
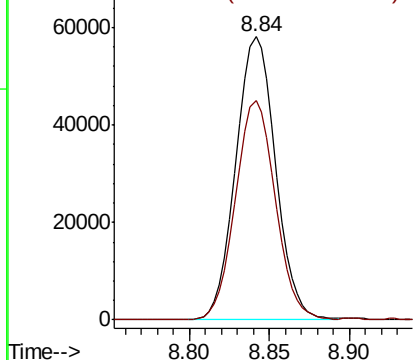


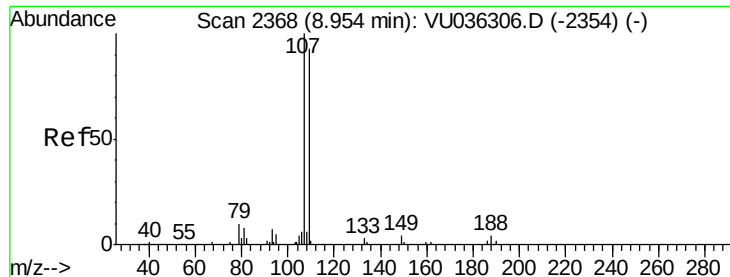
#49
Dibromochloromethane
Concen: 5.244 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

Tgt Ion: 129 Resp: 98654
Ion Ratio Lower Upper
129 100
127 77.5 52.6 97.6



Abundance Ion 128.95 (128.65 to 129.65): VU036321.D (-2240) (-)
Ion 126.90 (126.60 to 127.60): VU036321.D (-2240) (-)

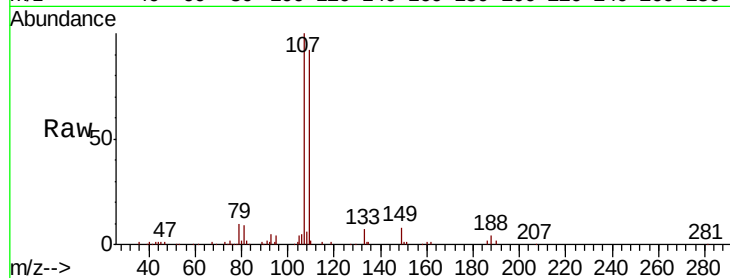




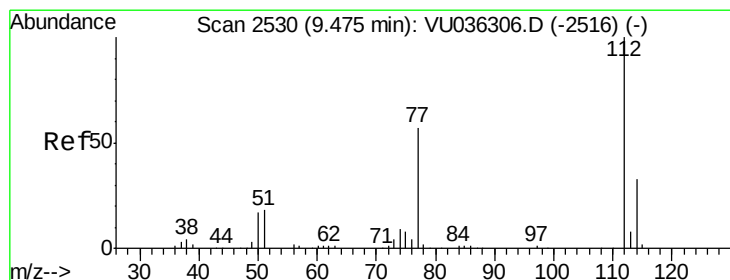
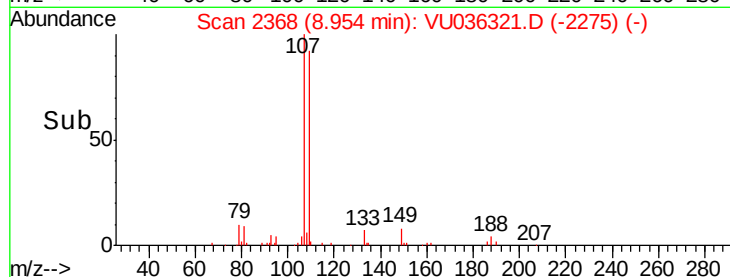
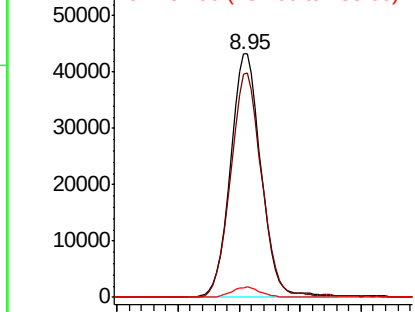
#50
 1,2-Dibromoethane
 Concen: 5.209 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion:107 Resp: 75623
 Ion Ratio Lower Upper
 107 100
 109 91.8 67.5 125.4
 188 4.1 3.1 4.7

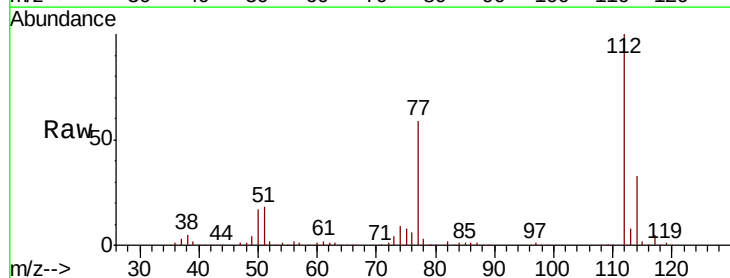


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

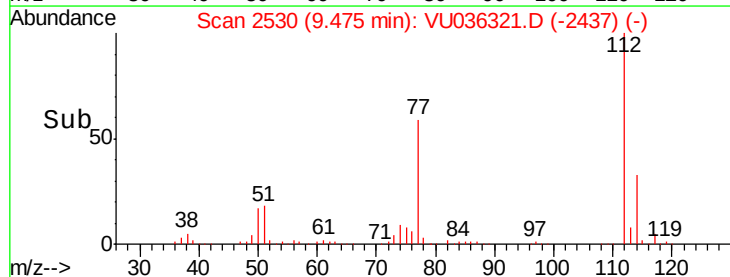
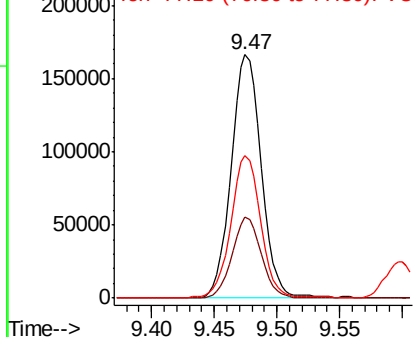


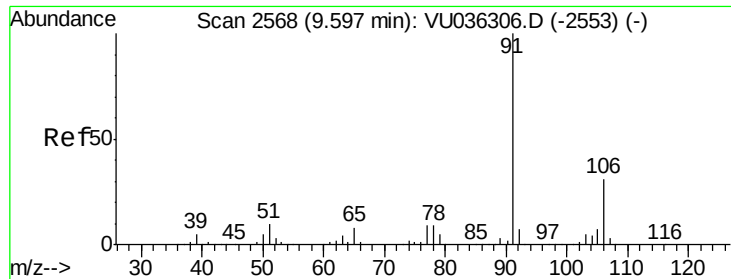
#51
 Chlorobenzene
 Concen: 4.907 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion:112 Resp: 276560
 Ion Ratio Lower Upper
 112 100
 114 33.2 23.2 43.2
 77 58.5 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: 4.936 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

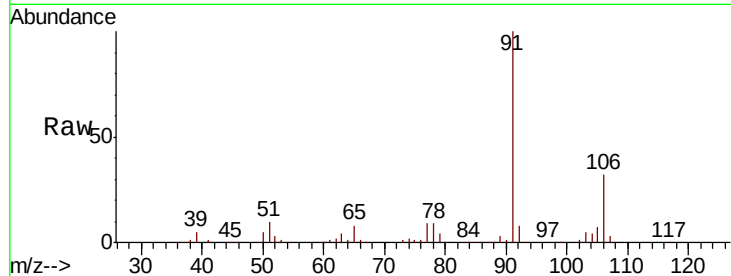
VSTD00525

Tot Ion: 91 Resp: 423099

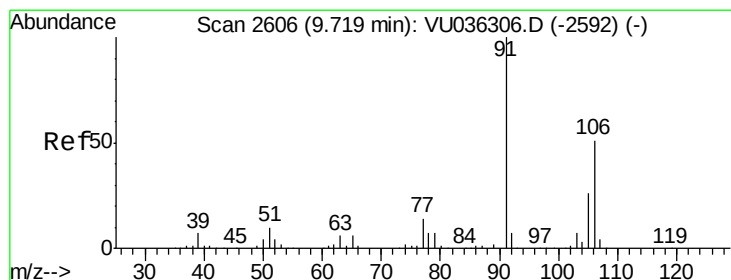
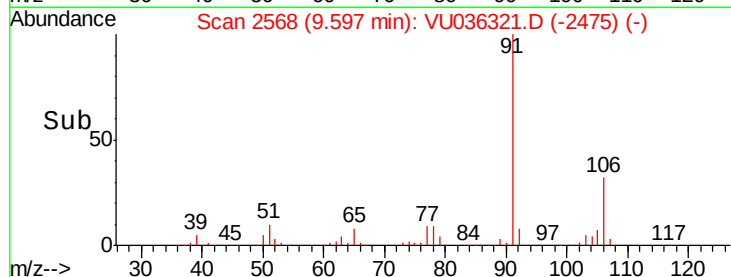
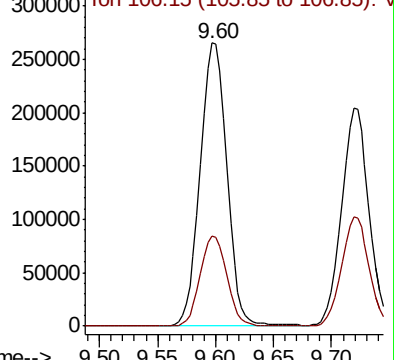
Ion Ratio Lower Upper

91 100

106 31.9 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036321.D (-2475) (-)



#53

m,p-Xylene

Concen: 5.164 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036321.D

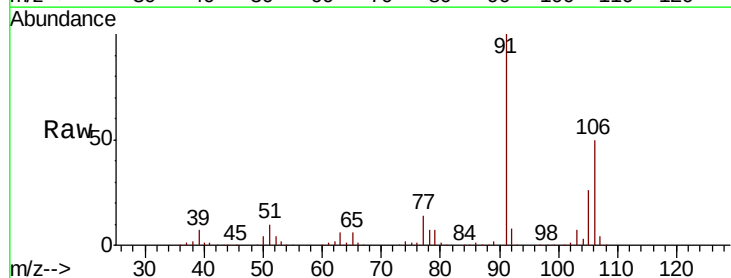
Acq: 20 Dec 2019 16:40

Tgt Ion: 106 Resp: 170549

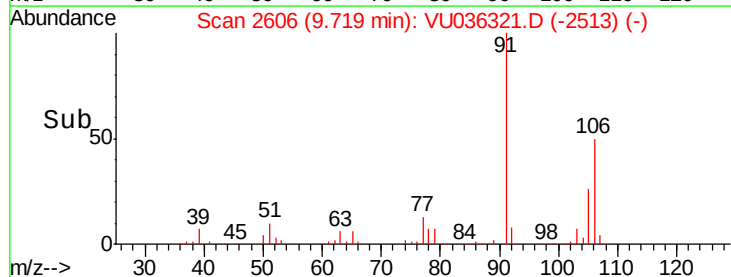
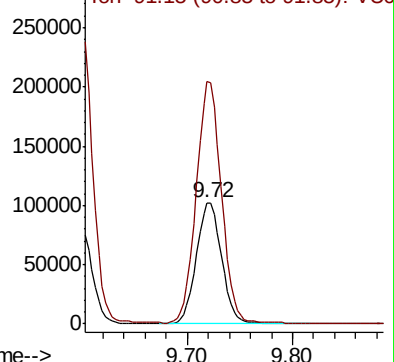
Ion Ratio Lower Upper

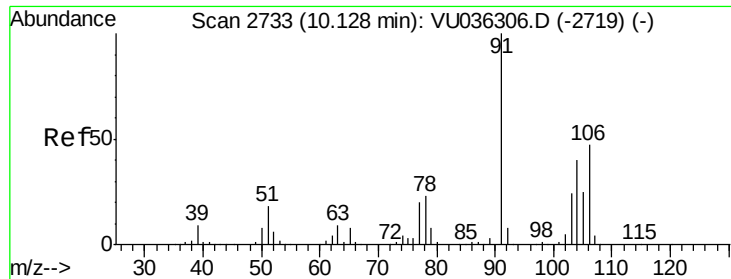
106 100

91 200.2 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): VU036321.D (-2513) (-)

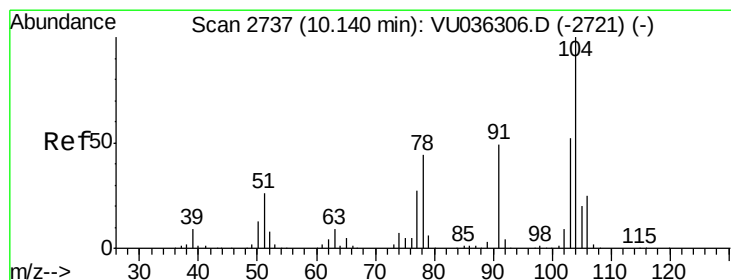
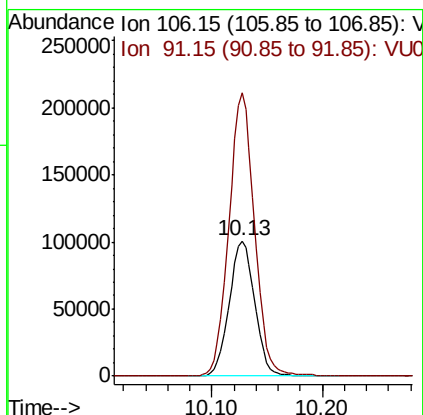
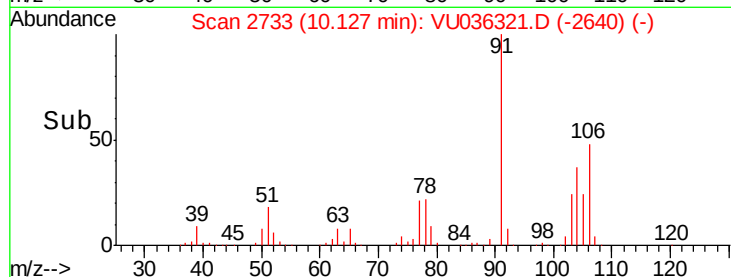
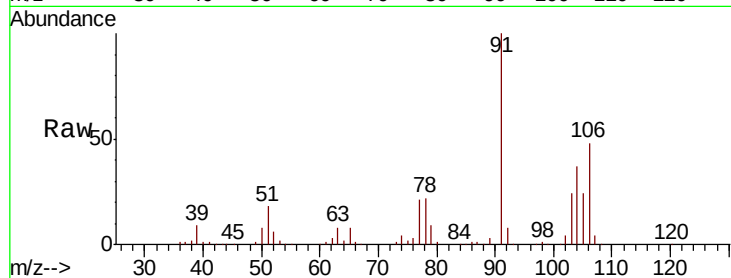




#54
o-Xylene
Concen: 5.090 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

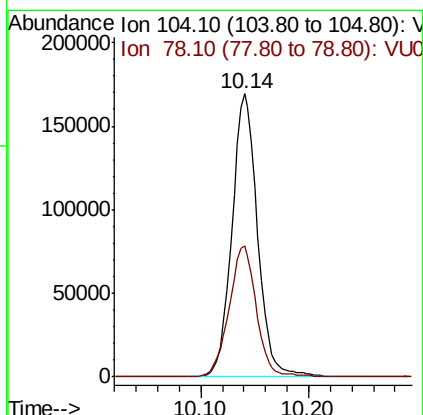
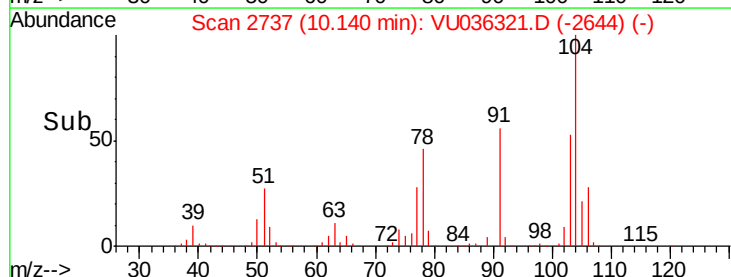
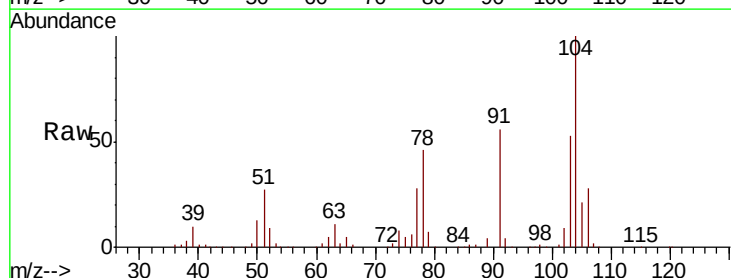
Instrument :
MSVOA_U
ClientSampleId :
VSTD00525

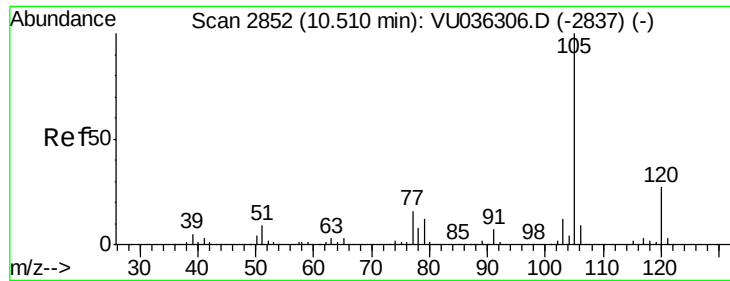
Tot Ion:106 Resp: 162135
Ion Ratio Lower Upper
106 100
91 209.4 152.8 283.8



#55
Styrene
Concen: 4.976 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU036321.D
Acq: 20 Dec 2019 16:40

Tgt Ion:104 Resp: 280496
Ion Ratio Lower Upper
104 100
78 46.1 32.1 59.5





#56

Isopropylbenzene

Concen: 5.039 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

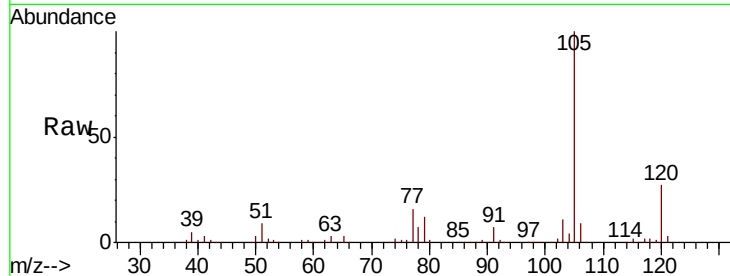
Tot Ion:105 Resp: 412193

Ion Ratio Lower Upper

105 100

120 27.2 21.0 31.6

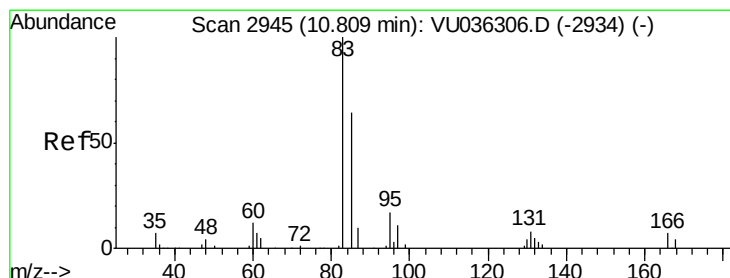
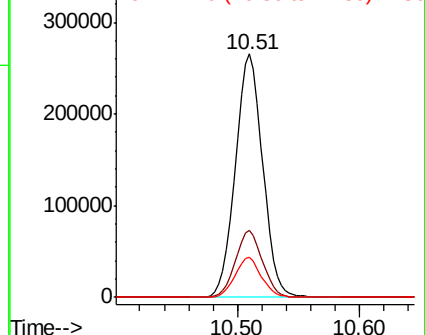
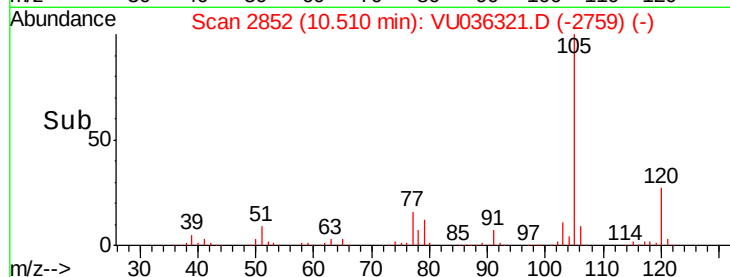
77 16.0 12.5 18.7



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: 5.267 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

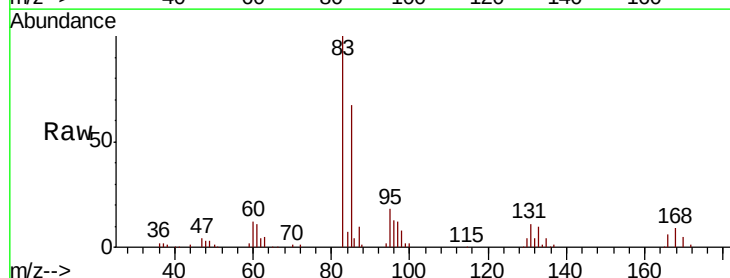
Tgt Ion: 83 Resp: 102075

Ion Ratio Lower Upper

83 100

85 66.7 45.6 84.8

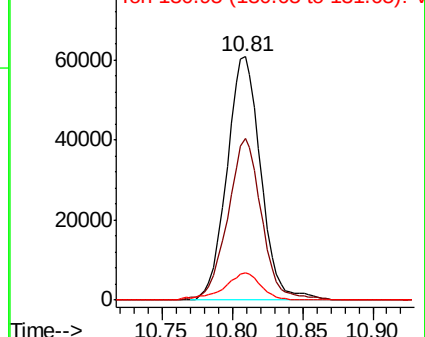
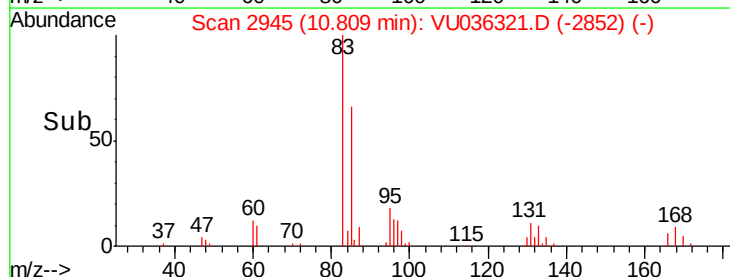
131 11.0 8.5 12.7

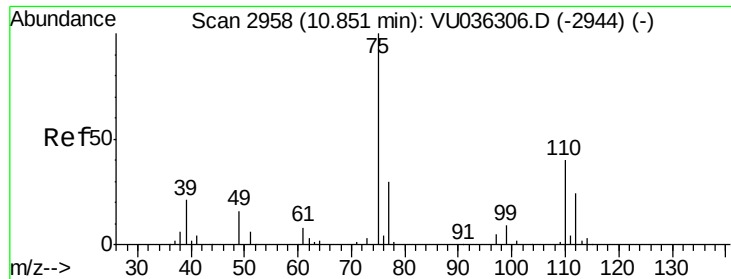


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.392 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

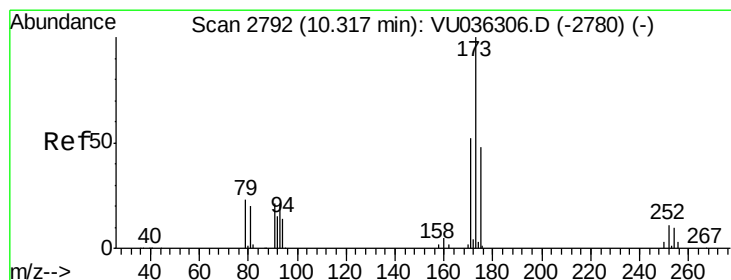
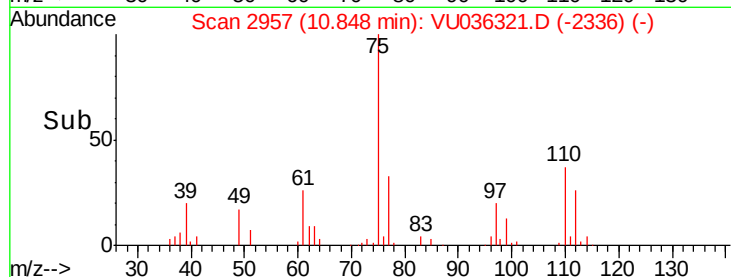
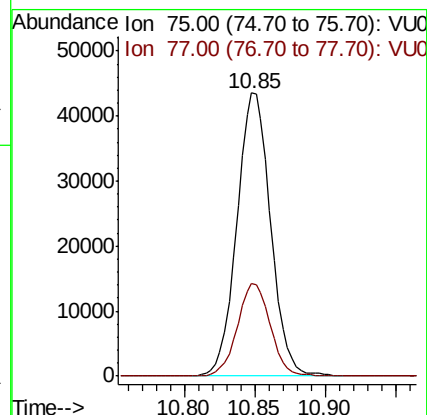
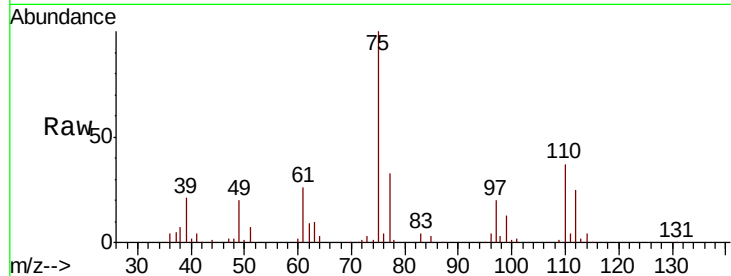
VSTD00525

Tot Ion: 75 Resp: 72792

Ion Ratio Lower Upper

75 100

77 32.0 27.2 40.8



#61

Bromoform

Concen: 4.808 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

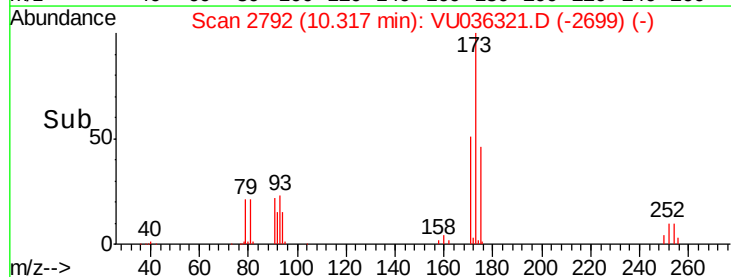
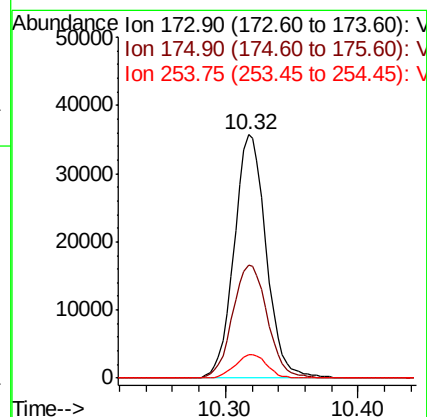
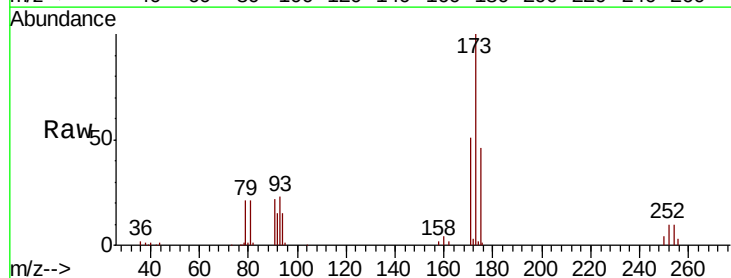
Tgt Ion: 173 Resp: 59837

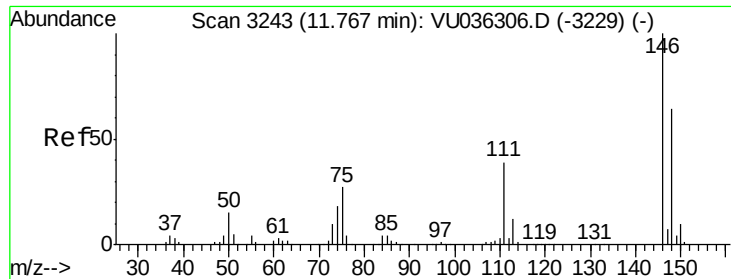
Ion Ratio Lower Upper

173 100

175 50.5 39.2 58.8

254 9.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 4.879 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

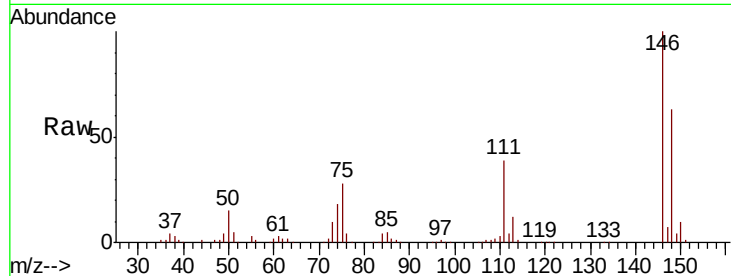
Tot Ion:146 Resp: 235937

Ion Ratio Lower Upper

146 100

111 38.7 26.3 48.9

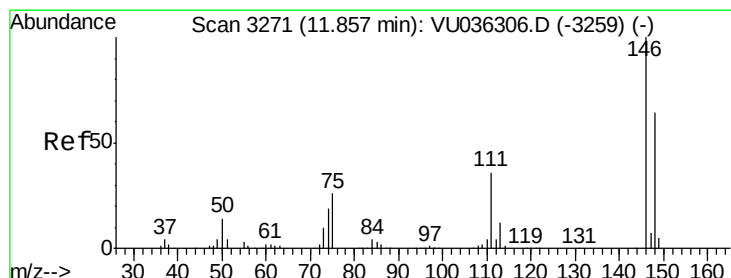
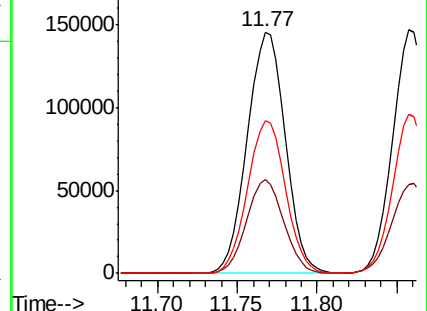
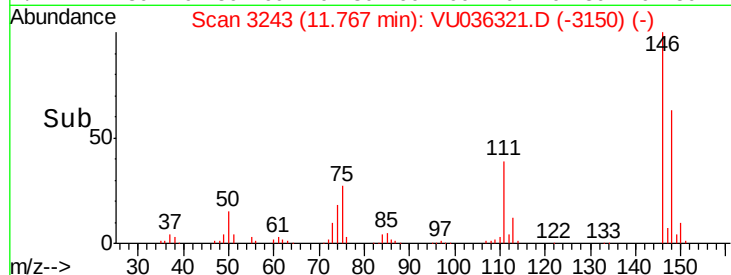
148 63.3 45.1 83.9



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: 4.846 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

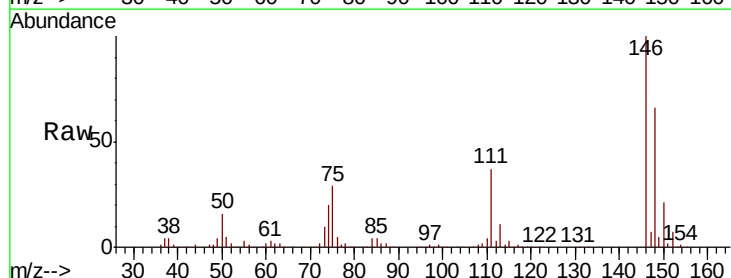
Tgt Ion:146 Resp: 232471

Ion Ratio Lower Upper

146 100

111 36.6 25.8 48.0

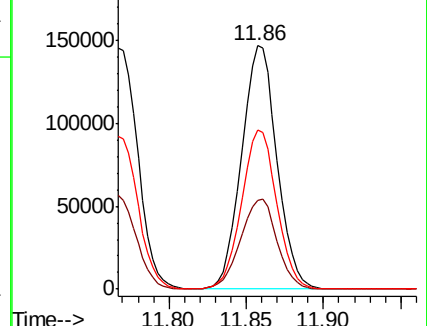
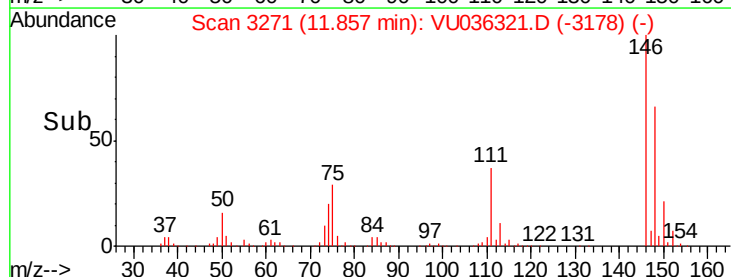
148 65.5 44.7 82.9

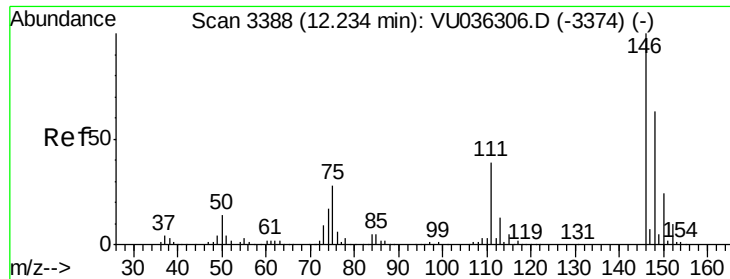


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

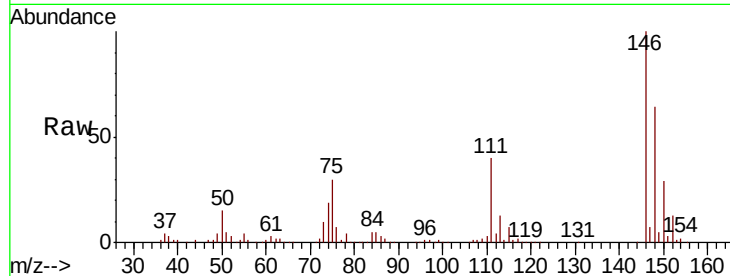




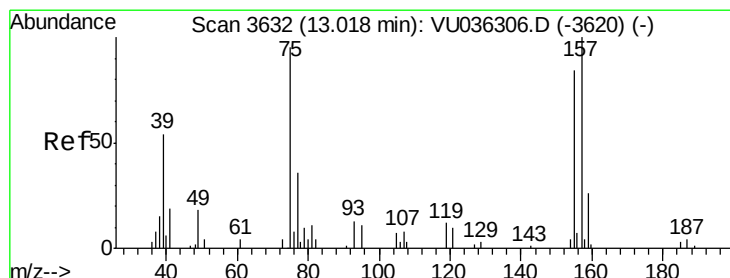
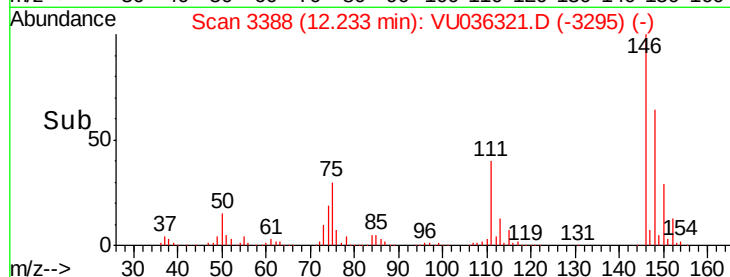
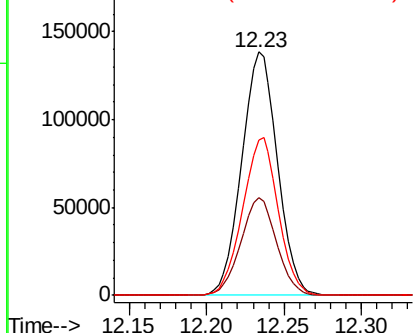
#65
 1,2-Dichlorobenzene
 Concen: 4.836 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion:146 Resp: 222830
 Ion Ratio Lower Upper
 146 100
 111 40.0 32.5 48.7
 148 63.8 49.2 73.8

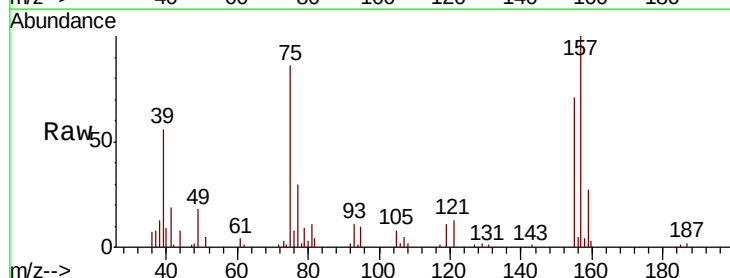


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

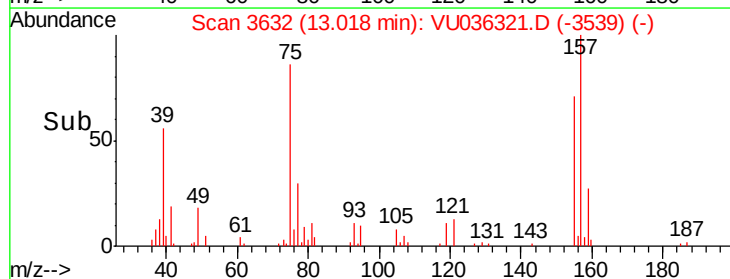
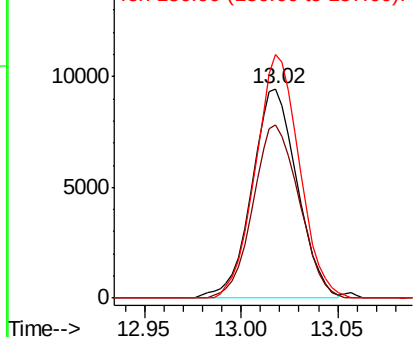


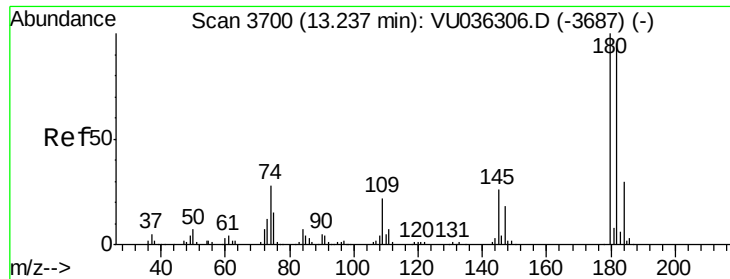
#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.018 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion: 75 Resp: 15356
 Ion Ratio Lower Upper
 75 100
 155 82.7 61.9 92.9
 157 116.5 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

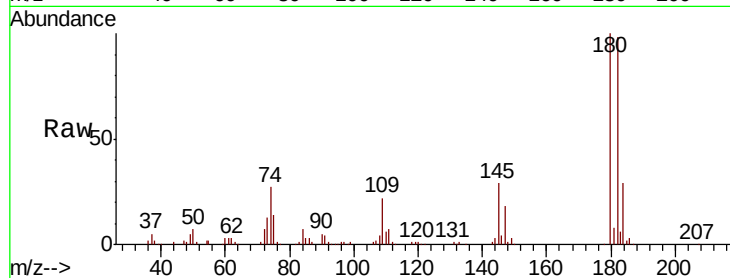




#67
 1,3,5-Trichlorobenzene
 Concen: 4.792 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00525

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.9	115.3
184	29.2	24.2	36.4
145	28.1	22.0	33.0



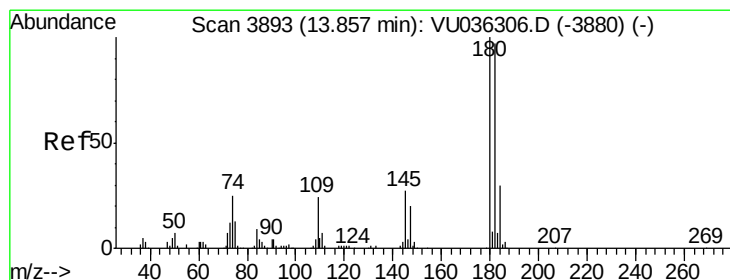
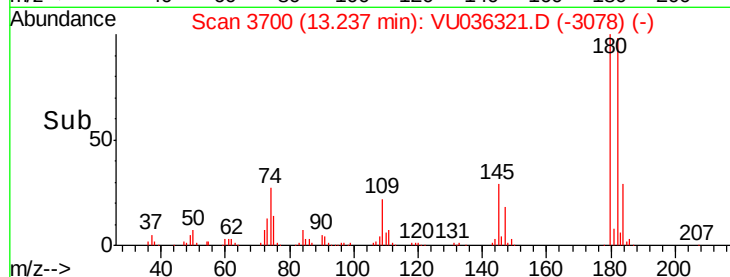
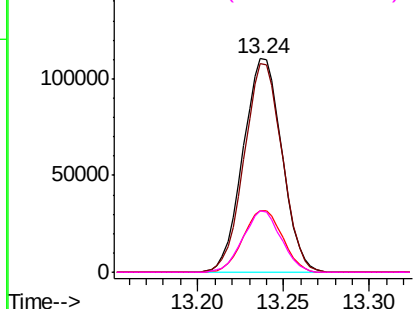
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

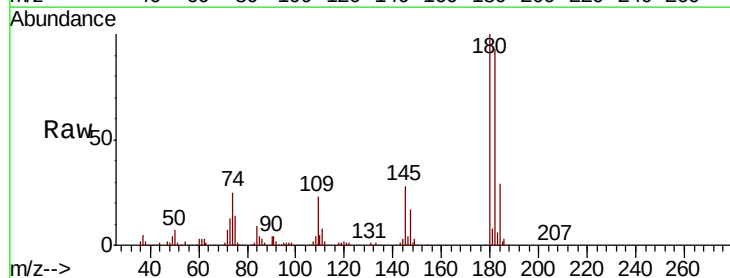
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.137 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU036321.D
 Acq: 20 Dec 2019 16:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.3	112.9
145	28.5	22.7	34.1

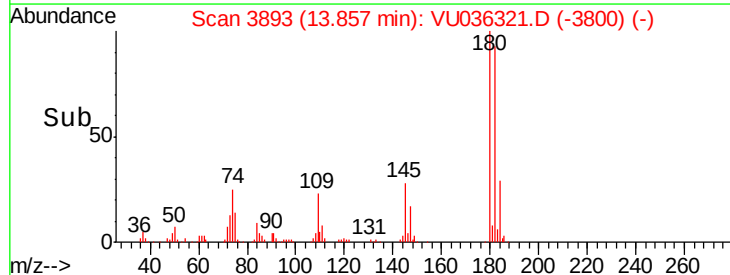
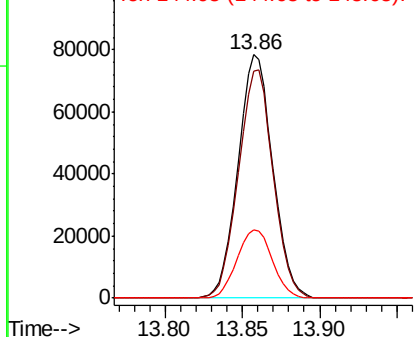


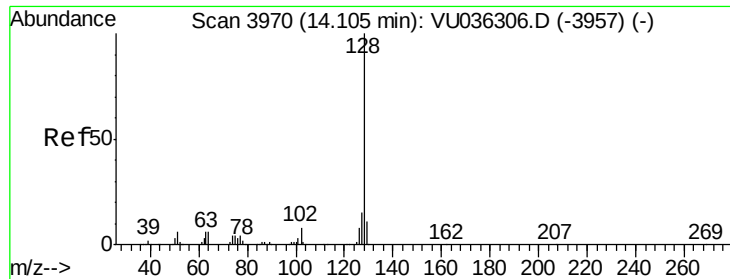
Abundance

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: 5.243 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD00525

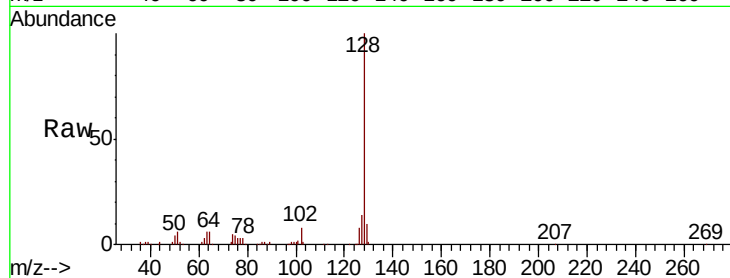
Tot Ion:128 Resp: 158808

Ion Ratio Lower Upper

128 100

129 10.6 8.4 12.6

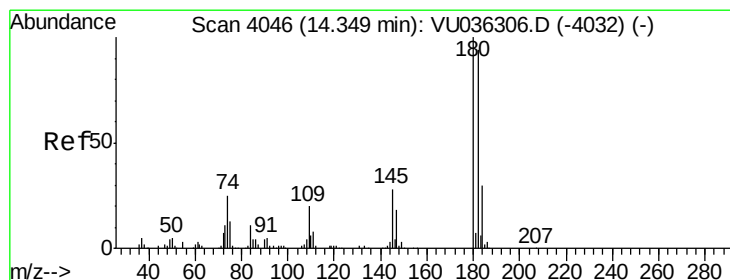
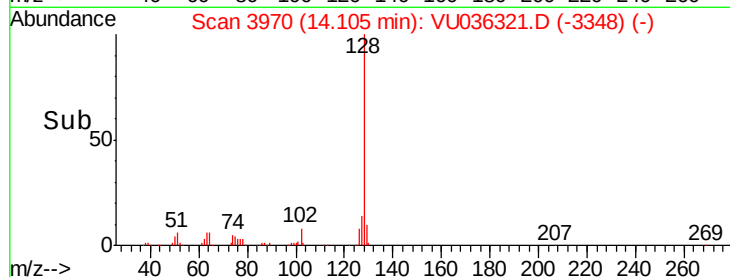
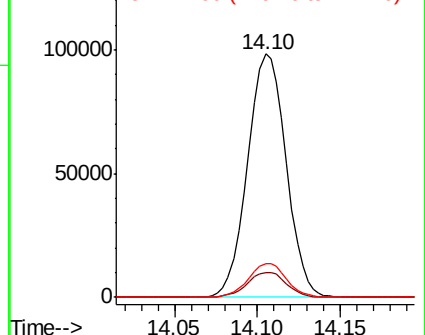
127 13.8 11.5 17.3



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: 5.175 ug/L

RT: 14.35 min Scan# 4045

Delta R.T. -0.00 min

Lab File: VU036321.D

Acq: 20 Dec 2019 16:40

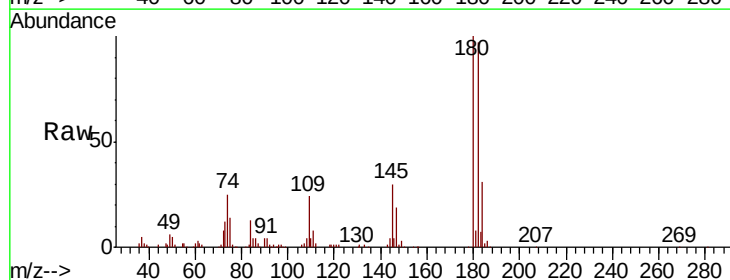
Tgt Ion:180 Resp: 119147

Ion Ratio Lower Upper

180 100

182 98.7 77.0 115.6

145 29.7 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

