

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010920\
 Data File : VU036415.D
 Acq On : 09 Jan 2020 12:12
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:04:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 09 14:24:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	549340	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	540527	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	251818	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	150705	35.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.42%
7) Chloroethane-d5	1.93	69	144375	39.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.96%
11) 1,1-Dichloroethene-d2	2.59	63	322659	44.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.50%
21) 2-Butanone-d5	4.67	46	283863	89.05	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.05%
24) Chloroform-d	5.11	84	357796	47.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.78%
26) 1,2-Dichloroethane-d4	5.74	65	232417	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.84%
32) Benzene-d6	5.77	84	680407	45.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.42%
36) 1,2-Dichloropropane-d6	6.73	67	226448	44.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.74%
41) Toluene-d8	7.93	98	648253	44.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.76%
43) trans-1,3-Dichloropropene-	8.21	79	121183	44.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.50%
47) 2-Hexanone-d5	8.67	63	214381	82.36	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.36%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	340854	44.53	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.06%
64) 1,2-Dichlorobenzene-d4	12.21	152	236762	44.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.64%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	200532	45.705	ug/L 99
3) Chloromethane	1.54	50	185458	46.456	ug/L 99
5) Vinyl chloride	1.62	62	190027	41.011	ug/L 100
6) Bromomethane	1.87	94	119366	53.306	ug/L 96
8) Chloroethane	1.95	64	117084	41.998	ug/L 99
9) Trichlorofluoromethane	2.16	101	288555	44.296	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	160668	49.823	ug/L 98
12) 1,1-Dichloroethene	2.61	96	148820	46.815	ug/L 98
13) Acetone	2.66	43	255906	77.402	ug/L 100
14) Carbon disulfide	2.82	76	403592	41.028	ug/L 98
15) Methyl Acetate	2.98	43	214286	48.199	ug/L 97
16) Methylene chloride	3.08	84	188855	48.532	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	162234	47.272	ug/L 97
18) Methyl tert-butyl Ether	3.41	73	610381	48.960	ug/L 99
19) 1,1-Dichloroethane	3.91	63	338208	49.165	ug/L 96
20) cis-1,2-Dichloroethene	4.71	96	199210	47.990	ug/L # 94
22) 2-Butanone	4.75	43	338499	86.667	ug/L 98

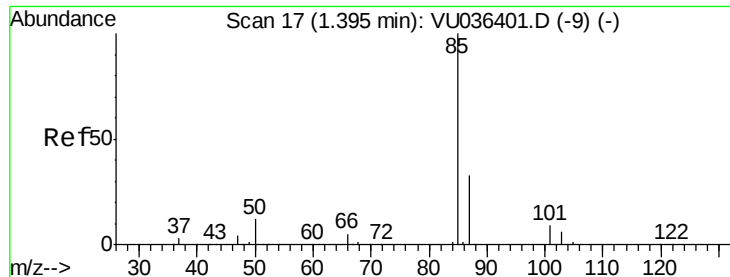
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010920\
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 QLast Update : Thu Jan 09 14:24:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	96509	48.431	ug/L	94
25) Chloroform	5.13	83	354699	48.392	ug/L	99
27) 1,2-Dichloroethane	5.83	62	288782	50.968	ug/L	98
29) Cyclohexane	5.43	56	291438	46.534	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	313304	47.292	ug/L	99
31) Carbon tetrachloride	5.56	117	266056	46.330	ug/L	98
33) Benzene	5.82	78	732620	46.140	ug/L	100
34) Trichloroethene	6.58	95	195432	47.742	ug/L	98
35) Methylcyclohexane	6.80	83	302456	46.291	ug/L	98
37) 1,2-Dichloropropane	6.83	63	197249	45.876	ug/L	100
38) Bromodichloromethane	7.14	83	278736	45.953	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	319002	44.319	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	631332	86.408	ug/L	100
42) Toluene	8.00	91	822135	47.021	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	307313	45.830	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	197432	49.219	ug/L	98
46) Tetrachloroethene	8.58	164	136561	46.365	ug/L	98
48) 2-Hexanone	8.72	43	473685	84.258	ug/L	93
49) Dibromochloromethane	8.84	129	222425	45.174	ug/L	99
50) 1,2-Dibromoethane	8.95	107	215294	46.279	ug/L	96
51) Chlorobenzene	9.47	112	526422	47.701	ug/L	100
52) Ethylbenzene	9.60	91	941366	47.305	ug/L	99
53) m,p-Xylene	9.72	106	342081	46.341	ug/L	96
54) o-xylene	10.12	106	349255	47.153	ug/L	94
55) Styrene	10.14	104	587997	46.951	ug/L	100
56) Isopropylbenzene	10.51	105	926871	48.012	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	353939	46.680	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	279777	46.377	ug/L	99
61) Bromoform	10.32	173	163081	43.580	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	387470	47.615	ug/L	96
63) 1,4-Dichlorobenzene	11.86	146	381074	47.208	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	386082	47.353	ug/L	95
66) 1,2-Dibromo-3-chloropropan	13.02	75	78246	41.127	ug/L	90
67) 1,3,5-Trichlorobenzene	13.24	180	243317	45.028	ug/L	98
68) 1,2,4-trichlorobenzene	13.86	180	176484	43.094	ug/L	98
69) Naphthalene	14.10	128	581321	41.309	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	187830	43.673	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 45.705 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

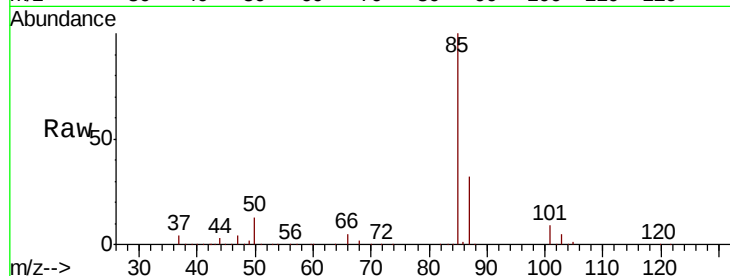
ClientSampleId :

Tot Ion: 85 Resp: 200532

Ion Ratio Lower Upper

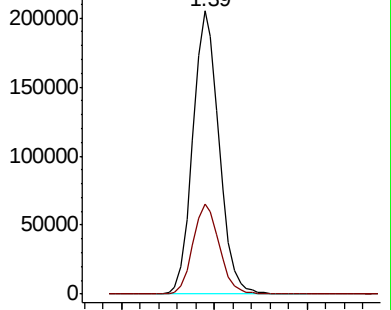
85 100

87 32.2 26.1 39.1

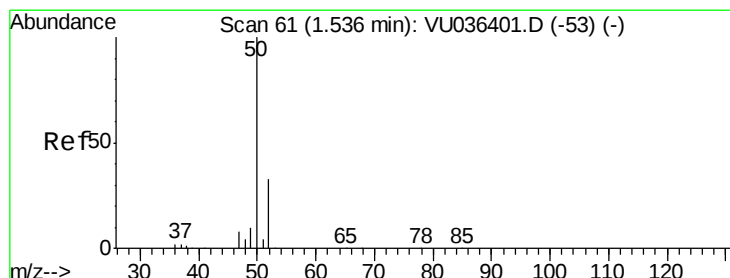
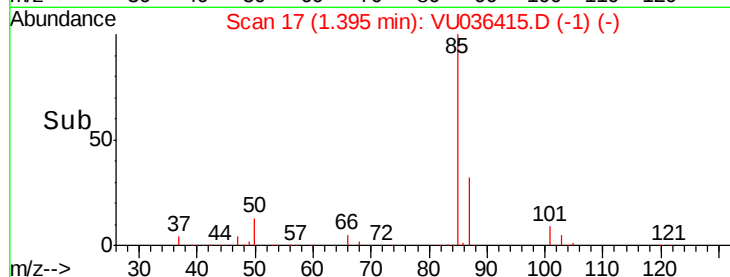


Abundance Ion 85.00 (84.70 to 85.70): VU036415.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036415.D (-9) (-)



Time-->



#3

Chloromethane

Concen: 46.456 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036415.D

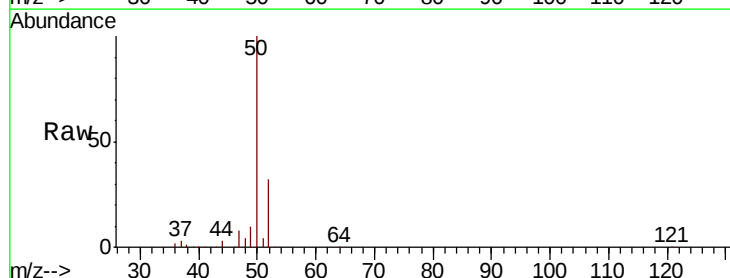
Acq: 09 Jan 2020 12:12

Tgt Ion: 50 Resp: 185458

Ion Ratio Lower Upper

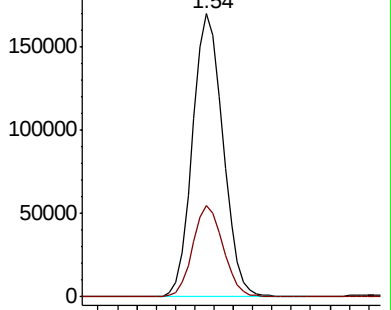
50 100

52 32.1 23.0 42.6

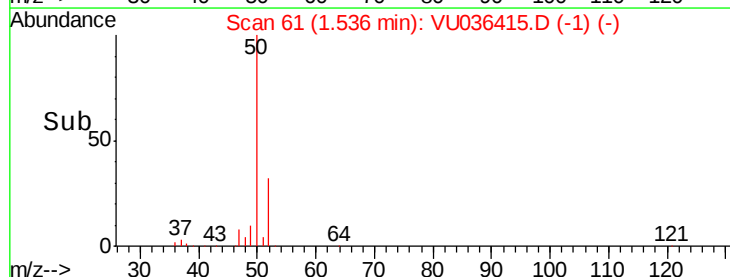


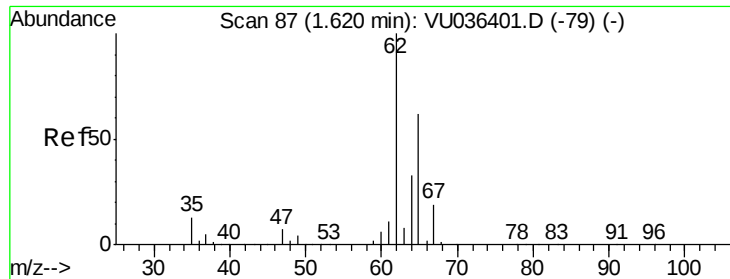
Abundance Ion 50.00 (49.70 to 50.70): VU036415.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036415.D (-53) (-)



Time-->





#5

Vinyl chloride

Concen: 41.011 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

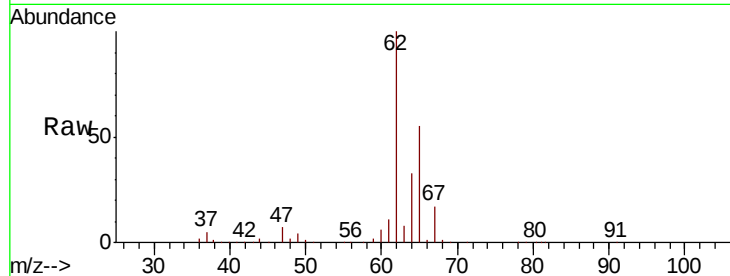
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 190027

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU036415.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU036415.D (-79) (-)

1.62

200000

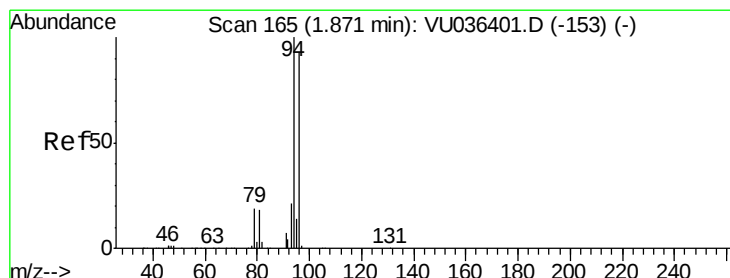
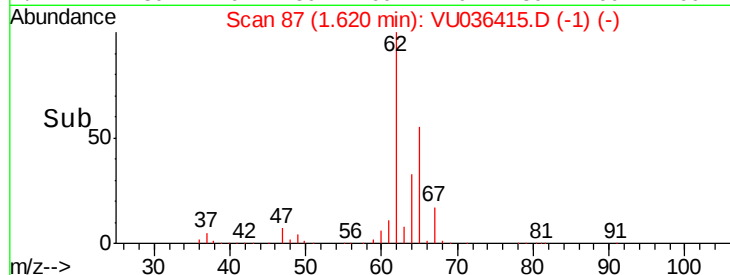
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 53.306 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU036415.D

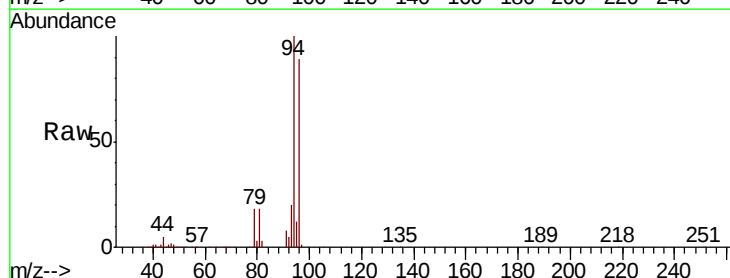
Acq: 09 Jan 2020 12:12

Tgt Ion: 94 Resp: 119366

Ion Ratio Lower Upper

94 100

96 88.6 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VU036415.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU036415.D (-153) (-)

1.87

100000

80000

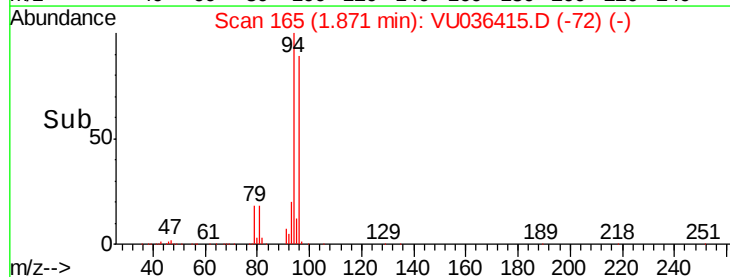
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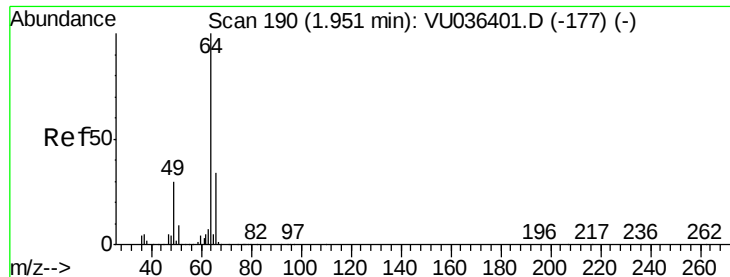
40000

20000

0

Time-->

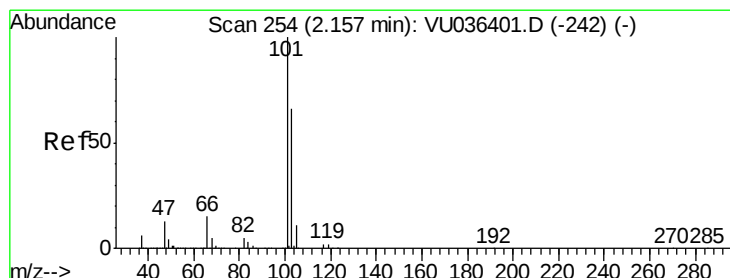
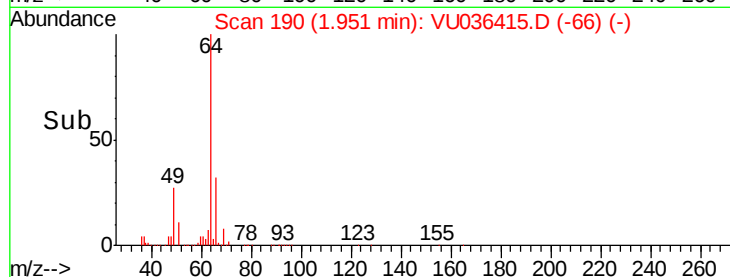
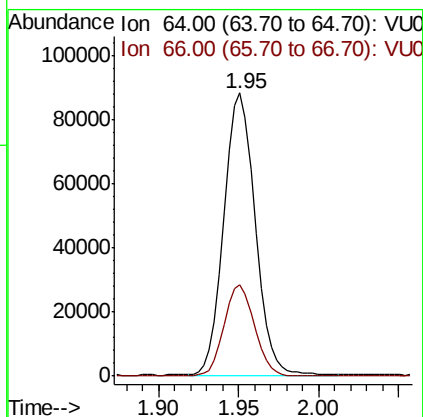
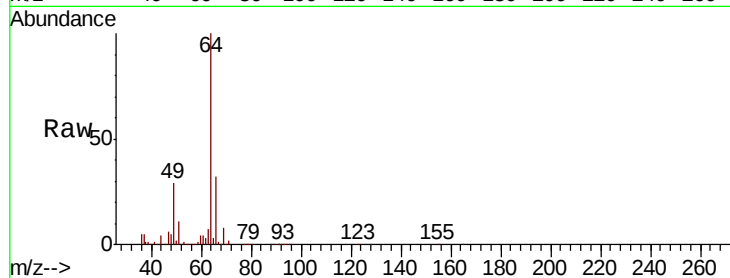




#8
Chloroethane
Concen: 41.998 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

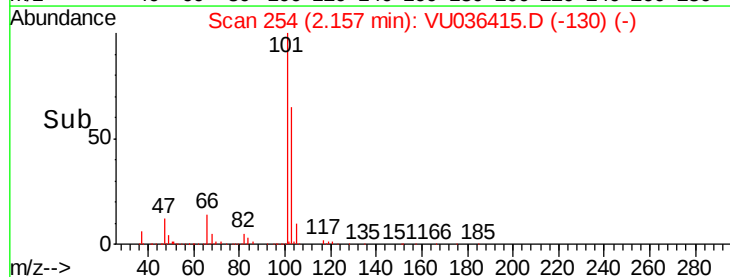
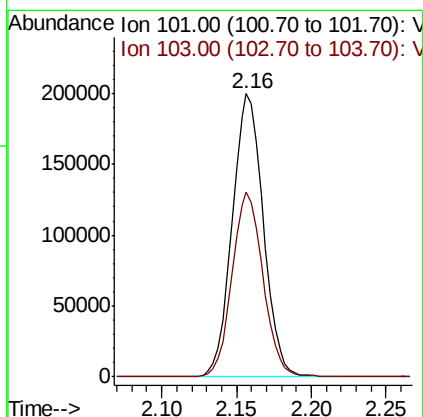
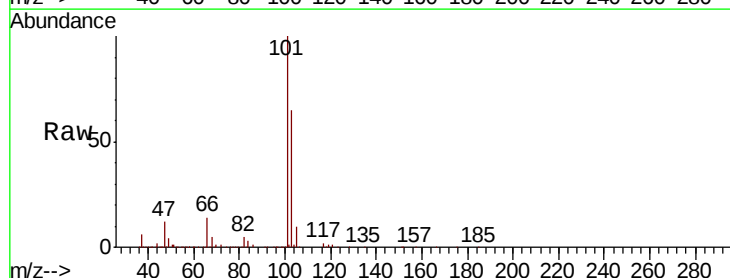
Instrument :
MSVOA_U
ClientSampleId :

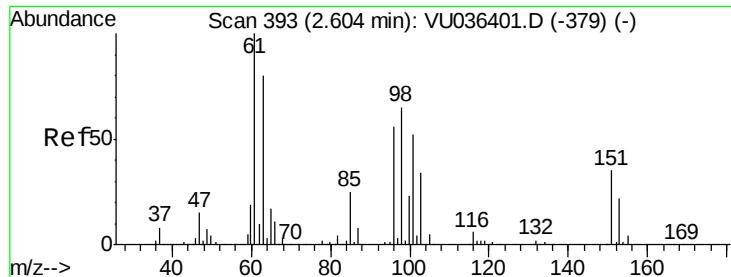
Tot Ion: 64 Resp: 117084
Ion Ratio Lower Upper
64 100
66 32.3 22.3 41.3



#9
Trichlorofluoromethane
Concen: 44.296 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Tgt Ion: 101 Resp: 288555
Ion Ratio Lower Upper
101 100
103 65.0 51.6 77.4





#10

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

Concen: 49.823 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

ClientSampled :

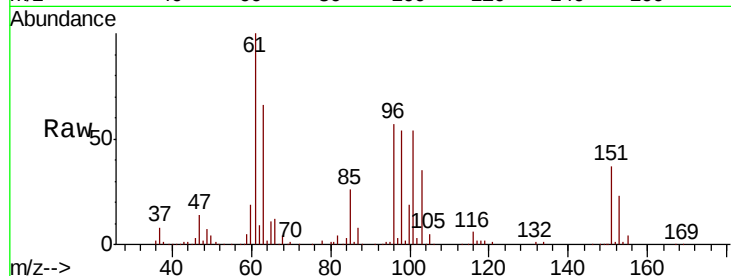
Tot Ion:101 Resp: 160668

Ion Ratio Lower Upper

101 100

85 47.8 37.1 55.7

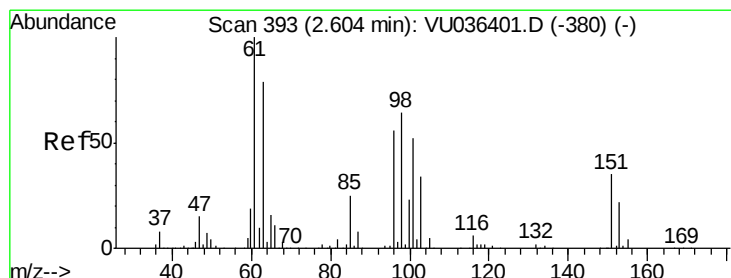
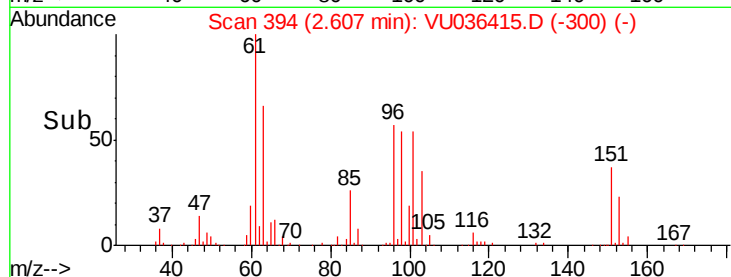
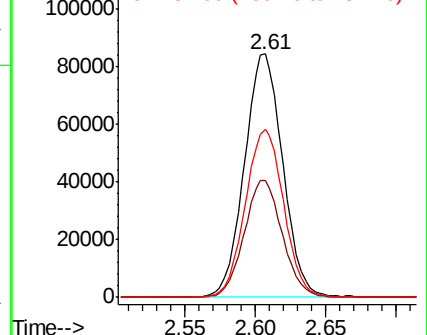
151 69.1 54.3 81.5



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: 46.815 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

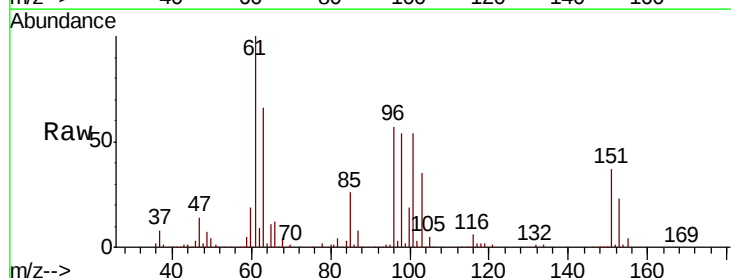
Tgt Ion: 96 Resp: 148820

Ion Ratio Lower Upper

96 100

61 175.5 120.9 224.5

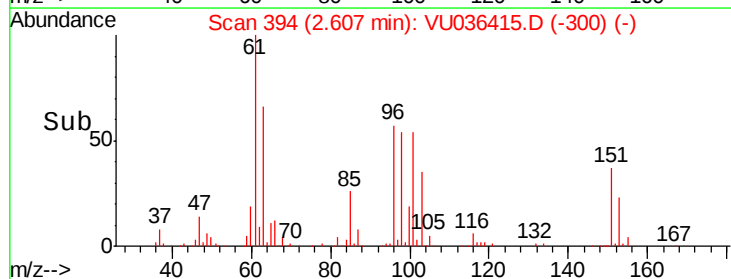
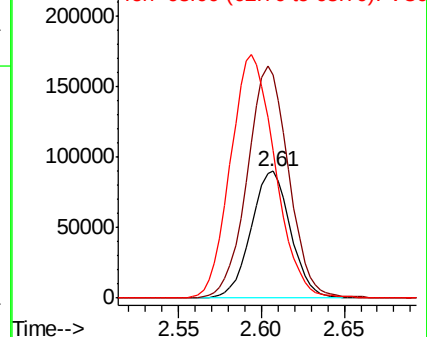
63 116.0 81.8 152.0

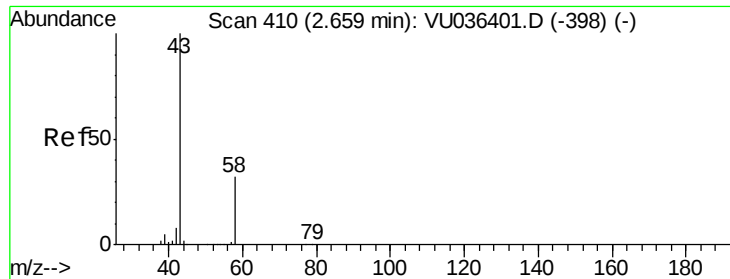


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 77.402 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

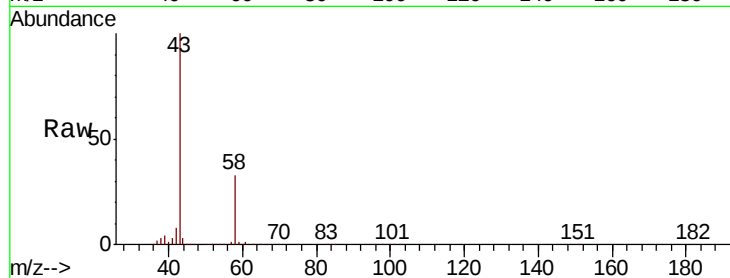
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 255906

Ion Ratio Lower Upper

43 100

58 32.9 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU036415.D (-398) (-)

Ion 58.00 (57.70 to 58.70): VU036415.D (-398) (-)

2.66

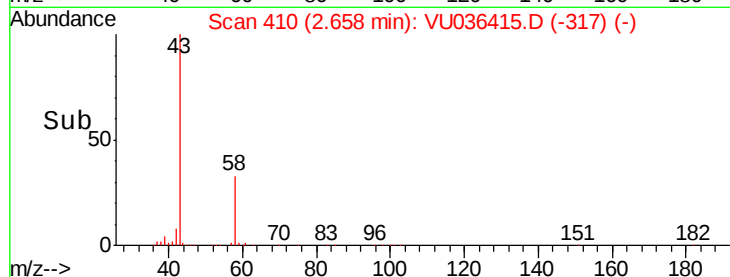
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100000

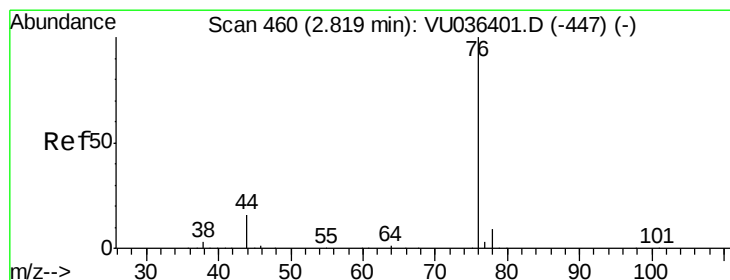
50000

0

Time-->



Time-->



#14

Carbon disulfide

Concen: 41.028 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036415.D

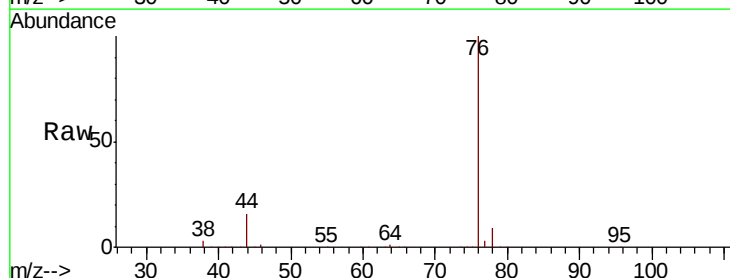
Acq: 09 Jan 2020 12:12

Tgt Ion: 76 Resp: 403592

Ion Ratio Lower Upper

76 100

78 8.8 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VU036415.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036415.D (-367) (-)

2.82

250000

200000

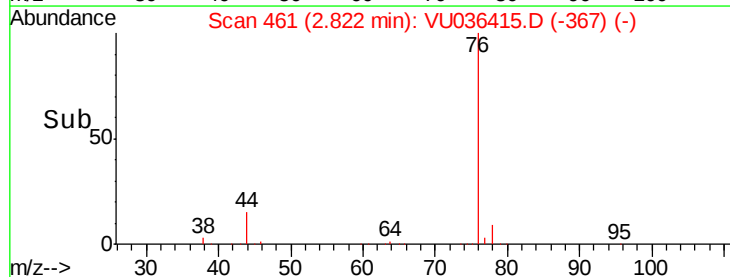
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100000

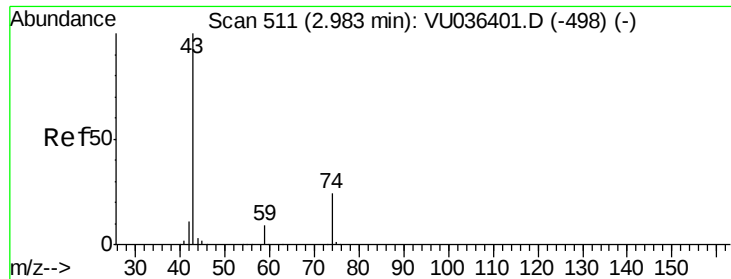
50000

0

Time-->



Time-->



#15

Methvl Acetate

Concen: 48.199 ug/L

RT: 2.98 min Scan# 511

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

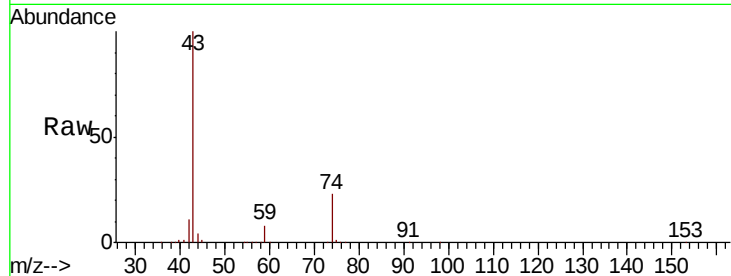
ClientSampleId :

Tot Ion: 43 Resp: 214286

Ion Ratio Lower Upper

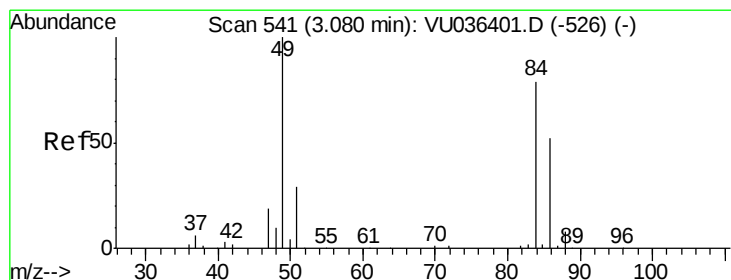
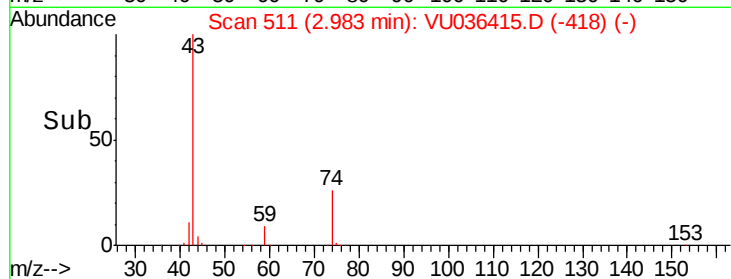
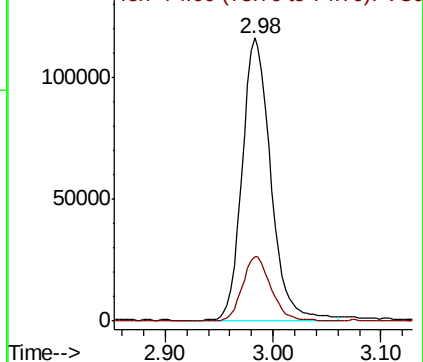
43 100

74 22.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VU036415.D (-418) (-)

Ion 74.00 (73.70 to 74.70): VU036415.D (-418) (-)



#16

Methylene chloride

Concen: 48.532 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

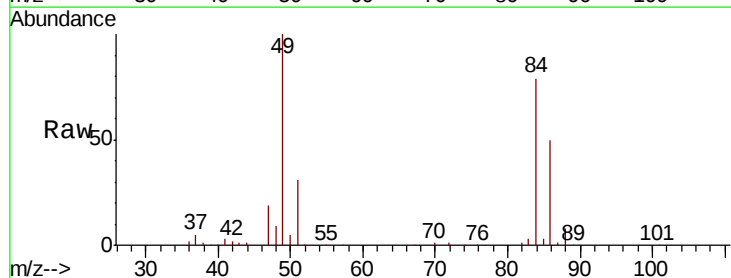
Tgt Ion: 84 Resp: 188855

Ion Ratio Lower Upper

84 100

86 63.2 44.6 82.8

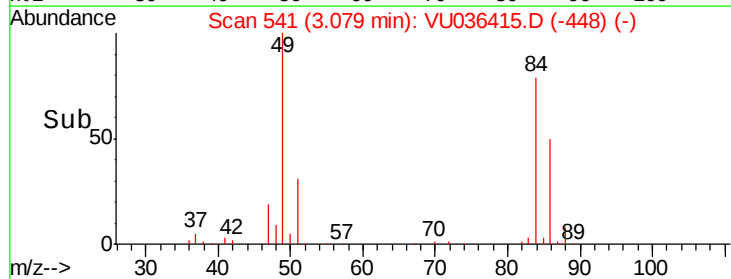
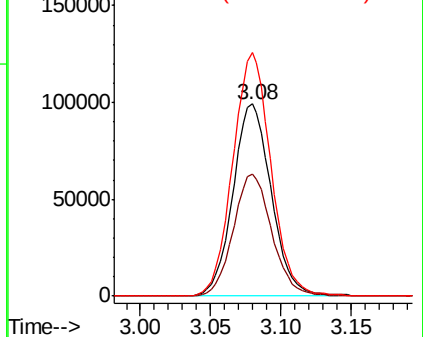
49 126.6 87.6 162.6

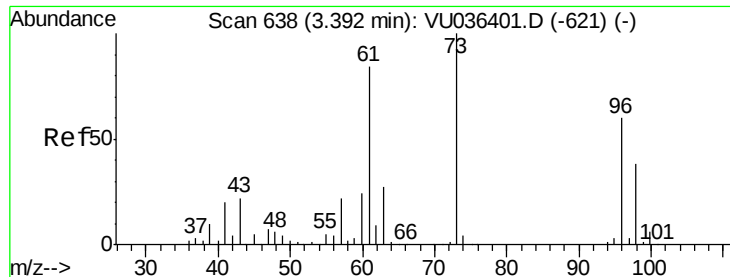


Abundance Ion 84.00 (83.70 to 84.70): VU036415.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU036415.D (-448) (-)

Ion 49.00 (48.70 to 49.70): VU036415.D (-448) (-)

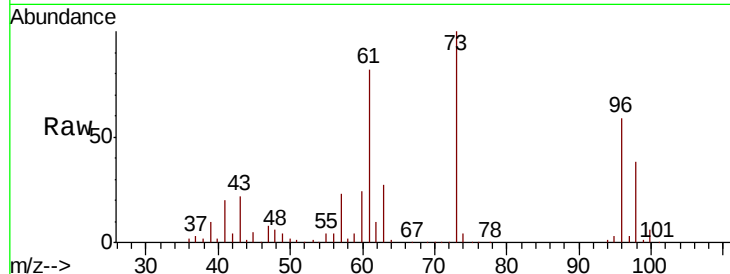




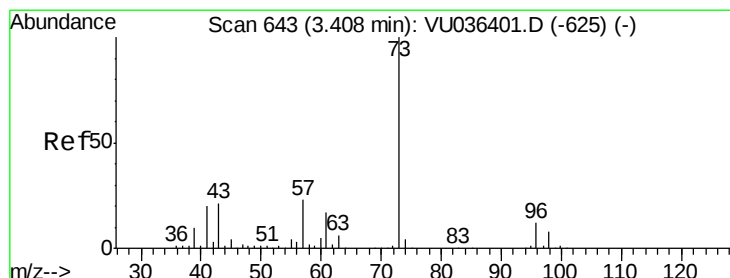
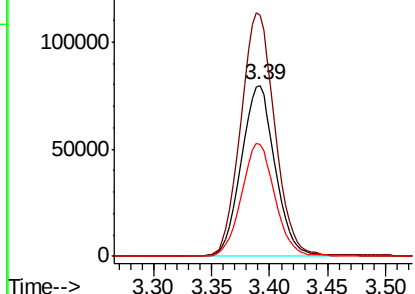
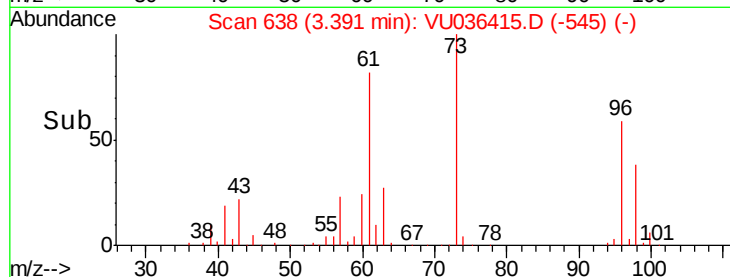
#17
trans-1,2-Dichloroethene
Concen: 47.272 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 162234
Ion Ratio Lower Upper
96 100
61 140.6 96.2 178.8
98 65.5 44.2 82.2

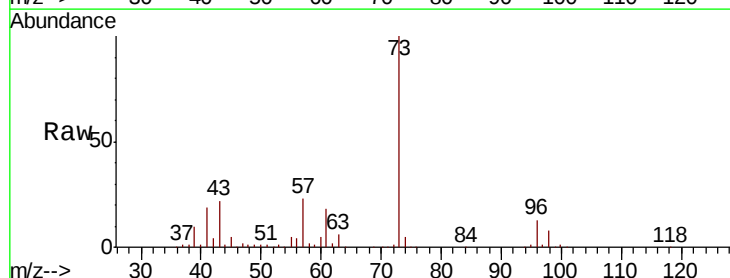


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

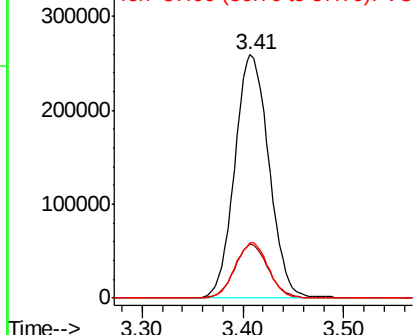
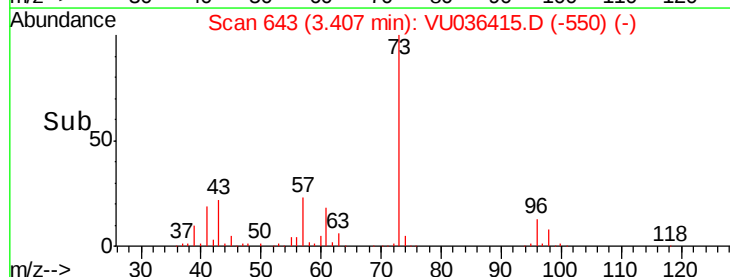


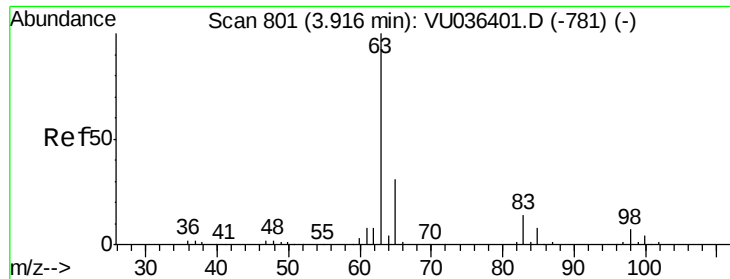
#18
Methyl tert-butyl Ether
Concen: 48.960 ug/L
RT: 3.41 min Scan# 643
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Tgt Ion: 73 Resp: 610381
Ion Ratio Lower Upper
73 100
43 21.3 16.3 24.5
57 22.2 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0



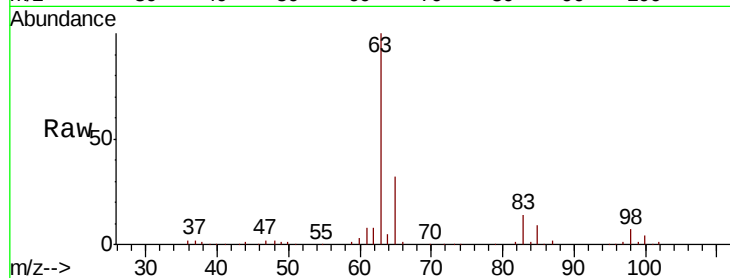


#19
 1,1-Dichloroethane
 Concen: 49.165 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

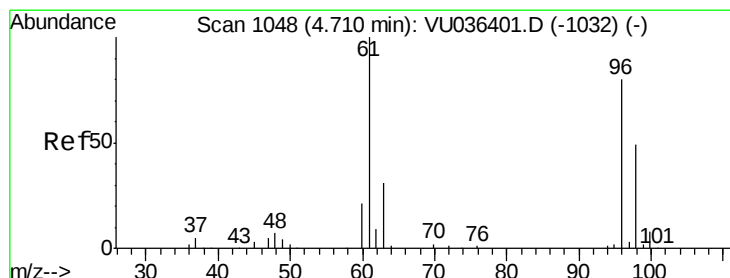
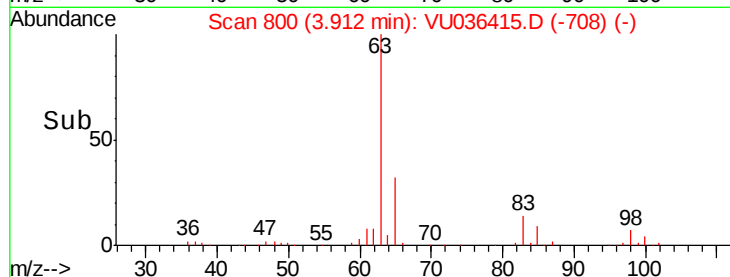
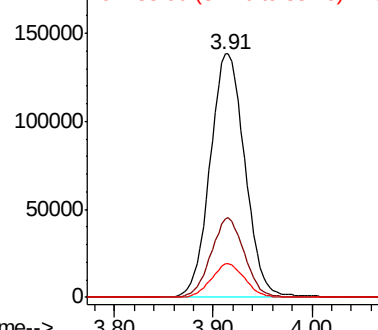
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 338208

Ion	Ratio	Lower	Upper
63	100		
65	32.1	20.0	37.2
83	13.7	9.6	17.8



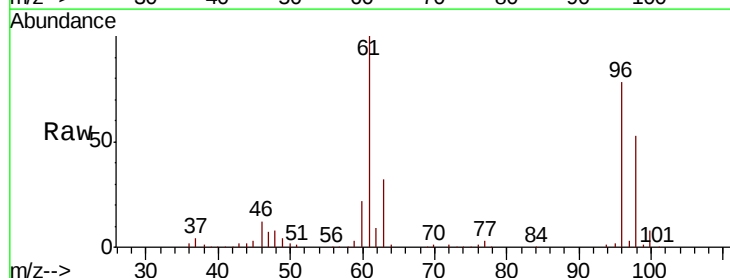
Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0



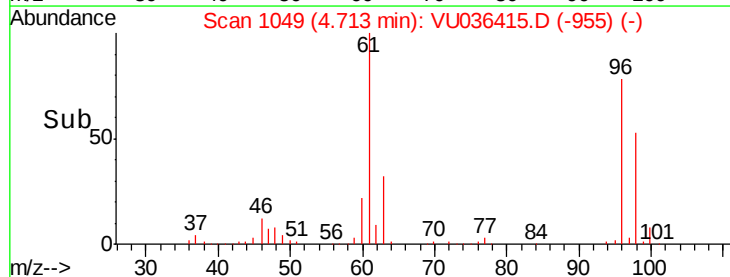
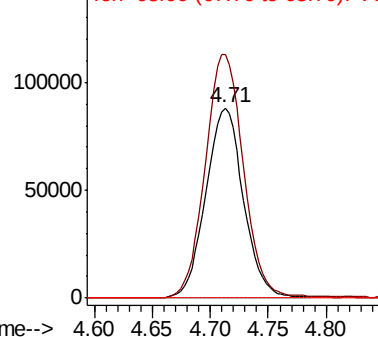
#20
 cis-1,2-Dichloroethene
 Concen: 47.990 ug/L
 RT: 4.71 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

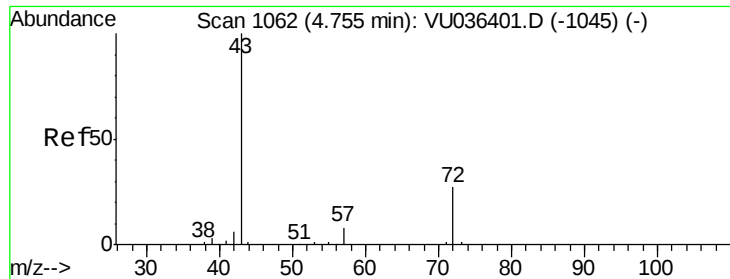
Tgt Ion: 96 Resp: 199210

Ion	Ratio	Lower	Upper
96	100		
61	128.1	85.1	158.1
68	0.0	0.1	0.3#



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 86.667 ug/L

RT: 4.75 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

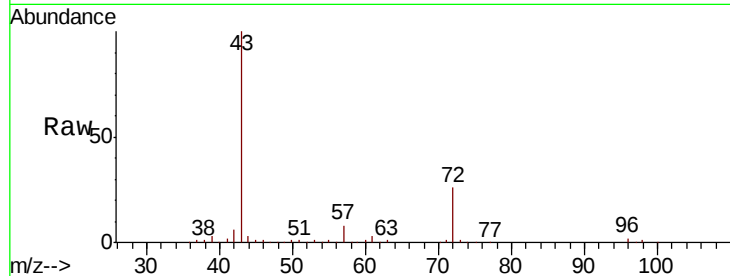
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 338499

Ion Ratio Lower Upper

43 100

72 27.5 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU036415.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU036415.D (-969) (-)

4.75

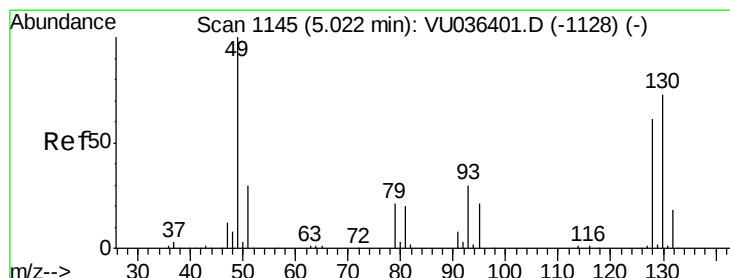
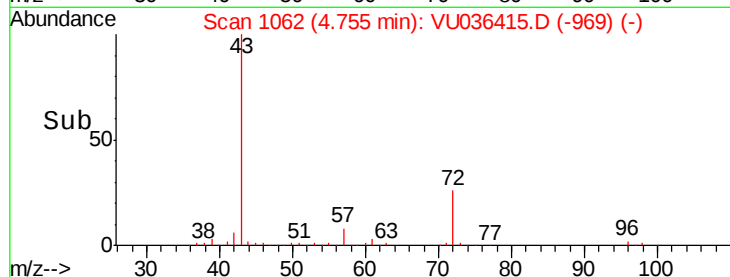
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 48.431 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Tgt Ion:128 Resp: 96509

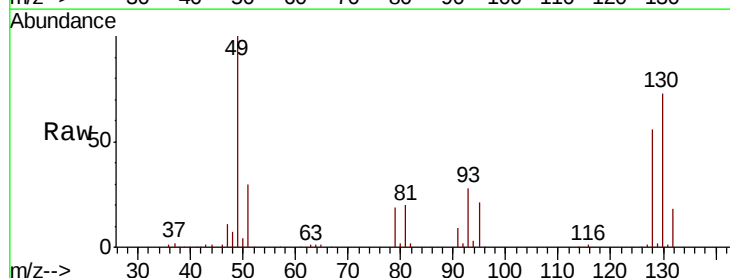
Ion Ratio Lower Upper

128 100

49 178.7 115.0 213.6

130 130.6 89.1 165.5

51 53.8 42.2 63.4



Abundance Ion 128.00 (127.70 to 128.70): VU036415.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU036415.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU036415.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU036415.D (-1052) (-)

5.02

120000

100000

80000

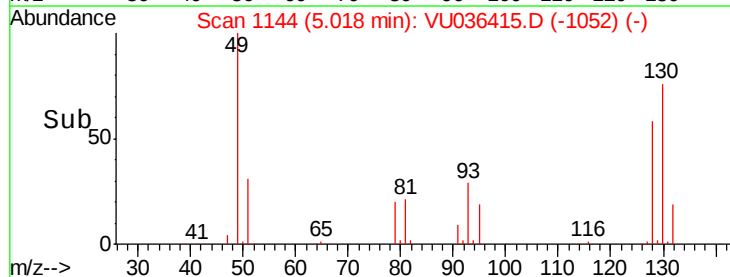
60000

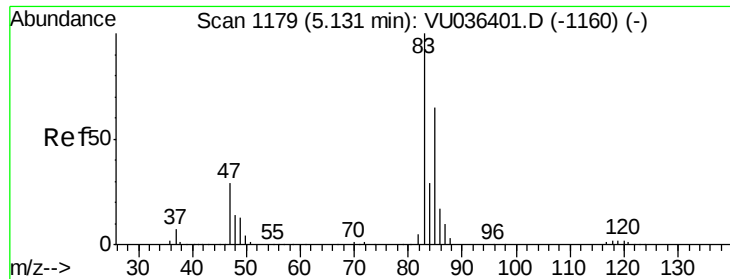
40000

20000

0

Time-->

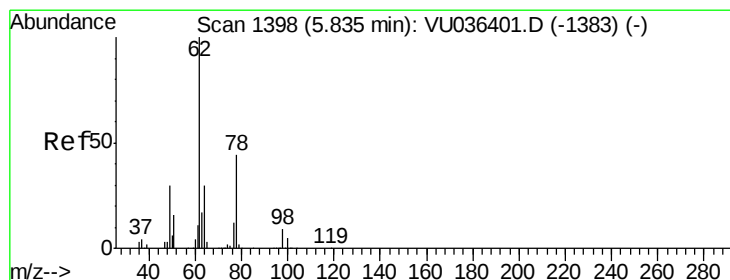
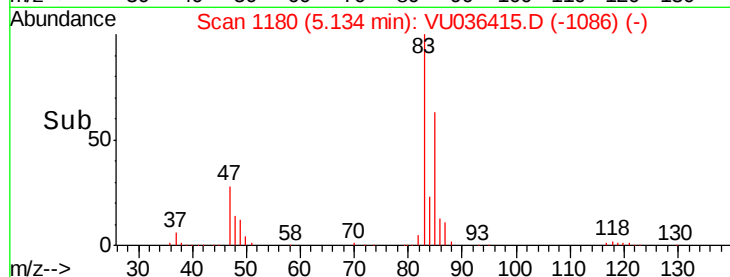
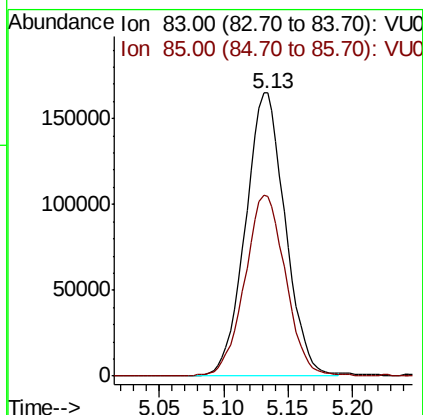
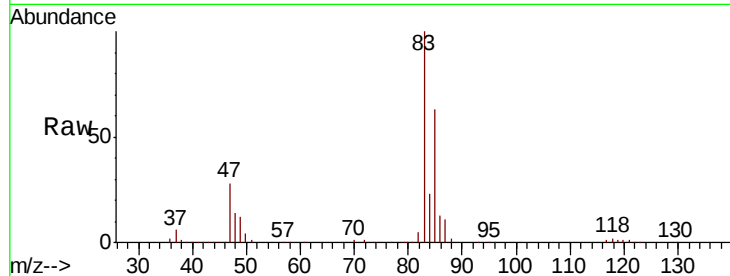




#25
Chloroform
Concen: 48.392 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

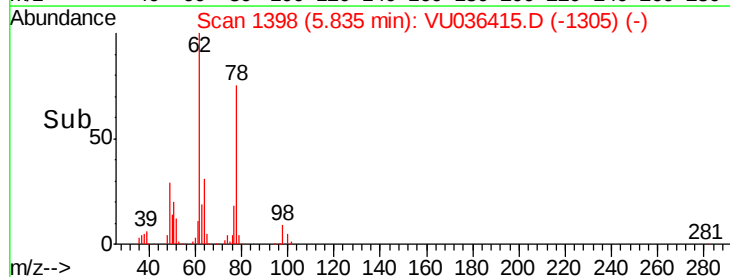
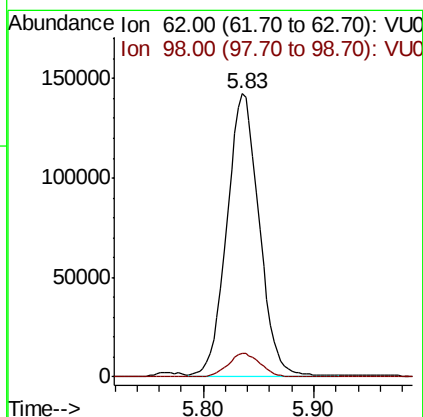
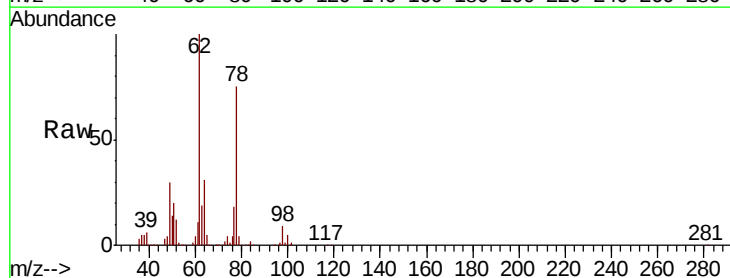
Instrument :
MSVOA_U
ClientSampleId :

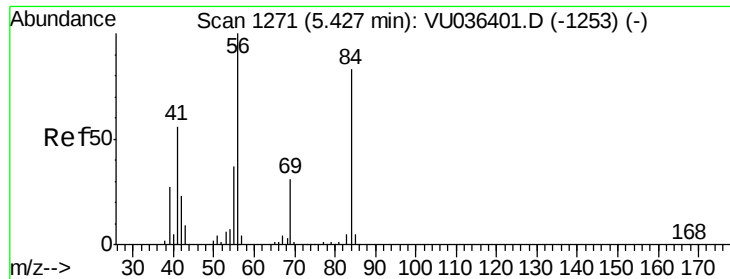
Tot Ion: 83 Resp: 354699
Ion Ratio Lower Upper
83 100
85 63.3 43.9 81.5



#27
1,2-Dichloroethane
Concen: 50.968 ug/L
RT: 5.83 min Scan# 1398
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Tgt Ion: 62 Resp: 288782
Ion Ratio Lower Upper
62 100
98 8.5 7.3 10.9

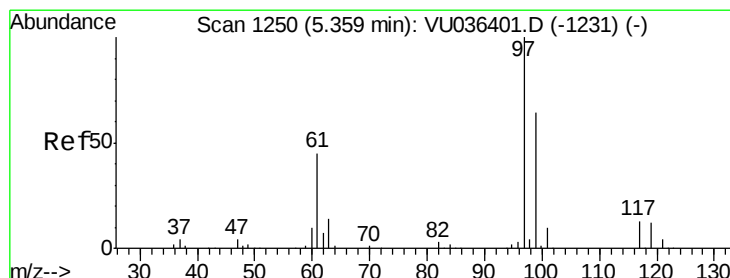
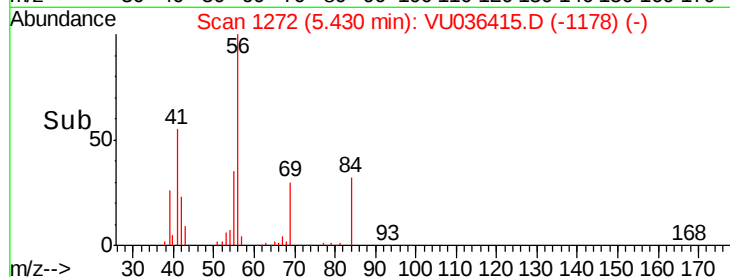
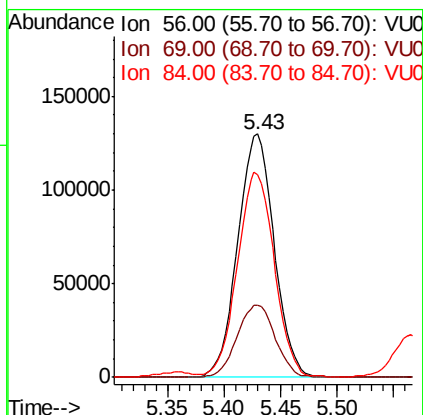
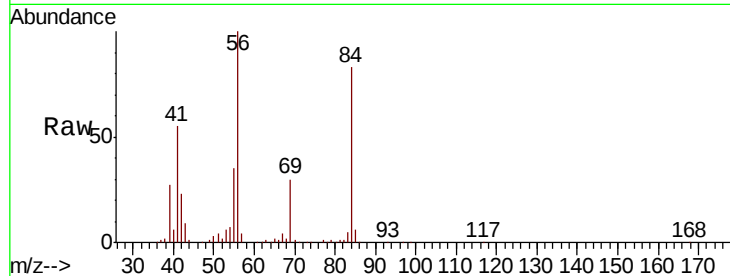




#29
Cyclohexane
Concen: 46.534 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

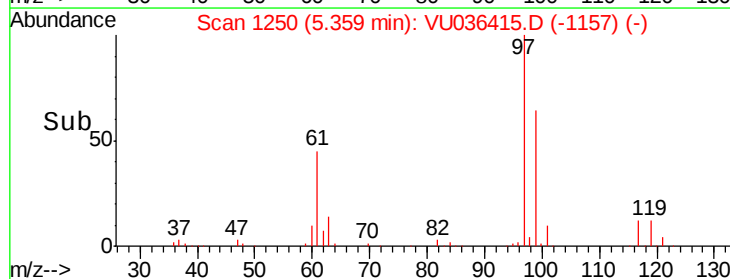
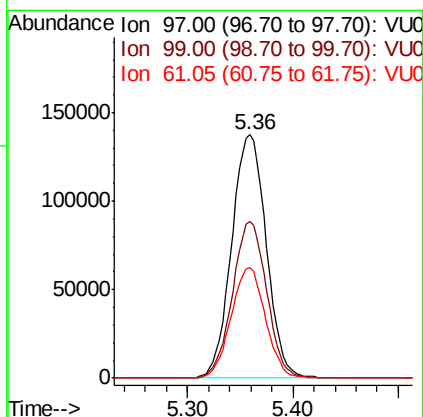
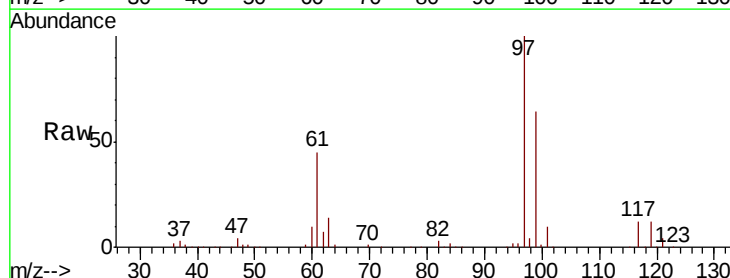
Instrument :
MSVOA_U
ClientSampleId :

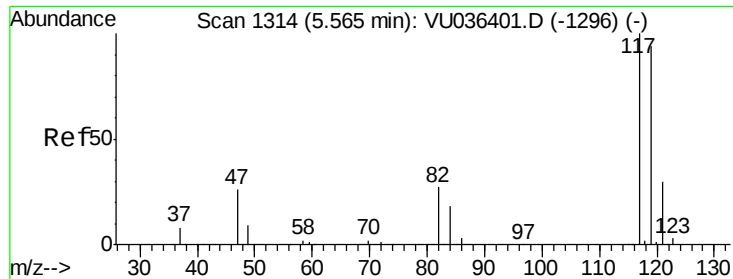
Tot Ion: 56 Resp: 291438
Ion Ratio Lower Upper
56 100
69 30.9 24.8 37.2
84 85.0 67.4 101.2



#30
1,1,1-Trichloroethane
Concen: 47.292 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Tgt Ion: 97 Resp: 313304
Ion Ratio Lower Upper
97 100
99 63.5 51.0 76.4
61 45.1 34.7 52.1





#31

Carbon tetrachloride

Concen: 46.330 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

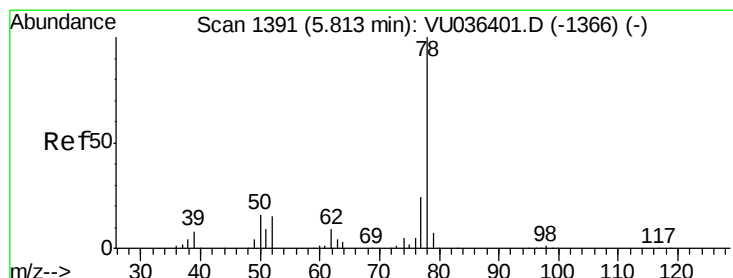
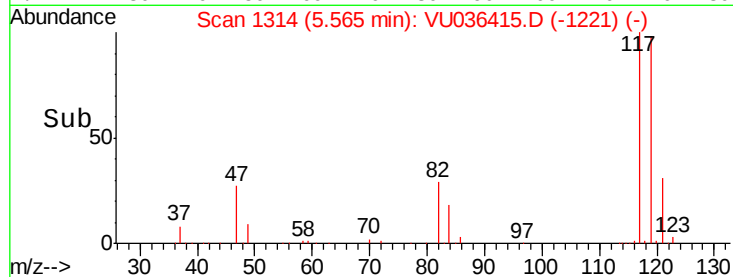
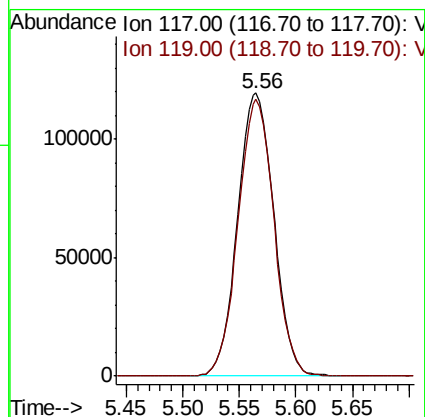
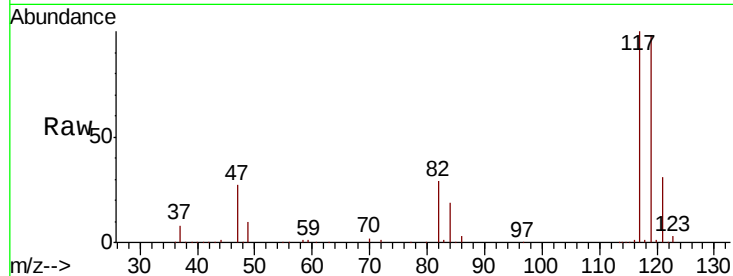
ClientSampled :

Tot Ion:117 Resp: 266056

Ion Ratio Lower Upper

117 100

119 96.5 76.0 114.0



#33

Benzene

Concen: 46.140 ug/L

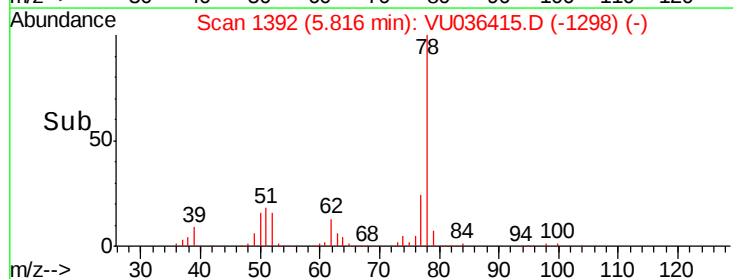
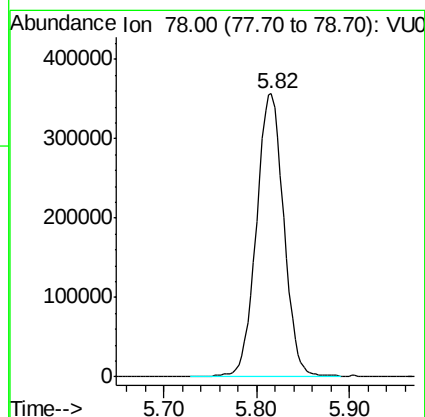
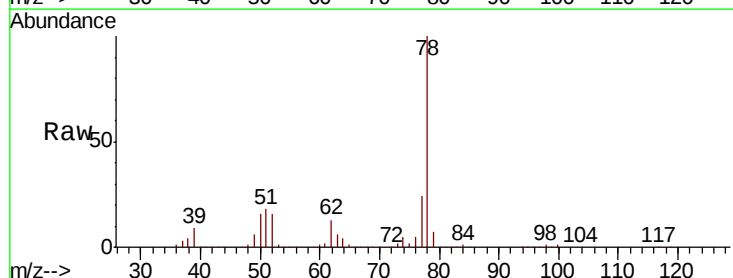
RT: 5.82 min Scan# 1392

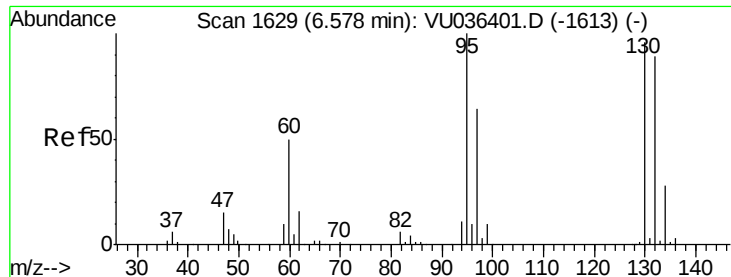
Delta R.T. 0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Tgt Ion: 78 Resp: 732620

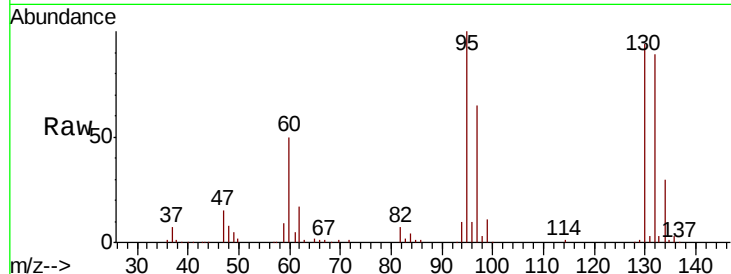




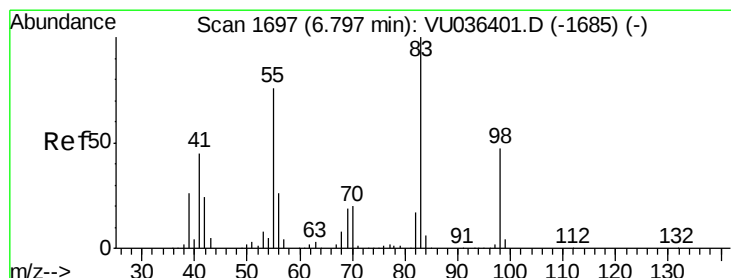
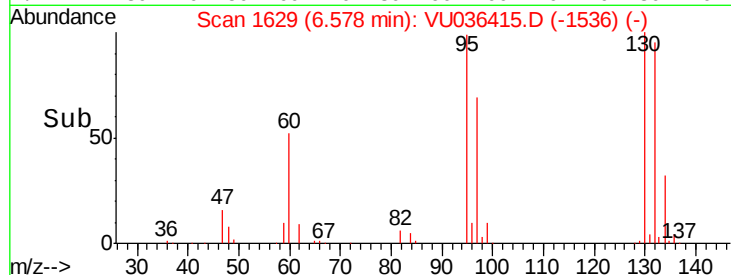
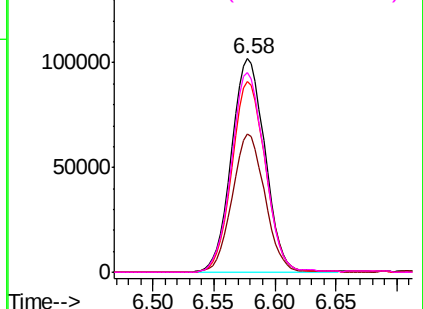
#34
 Trichloroethene
 Concen: 47.742 ug/L
 RT: 6.58 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 195432
 Ion Ratio Lower Upper
 95 100
 97 65.0 44.5 82.7
 132 89.1 64.5 119.9
 130 93.6 66.6 123.8

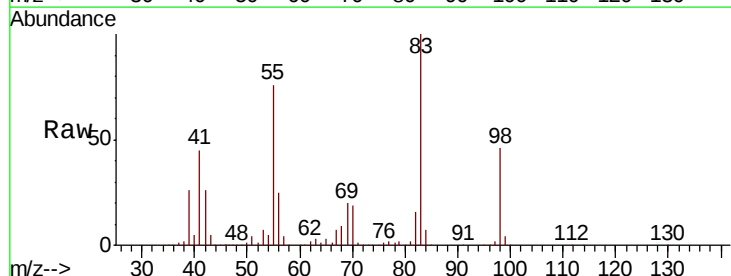


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

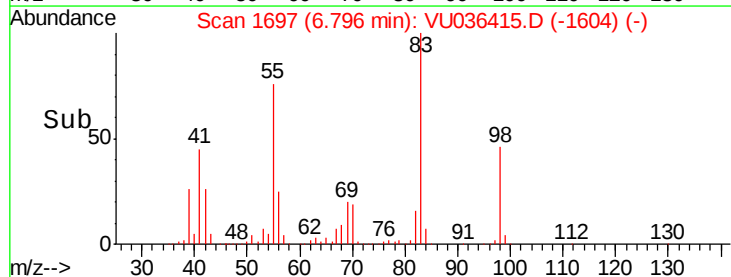
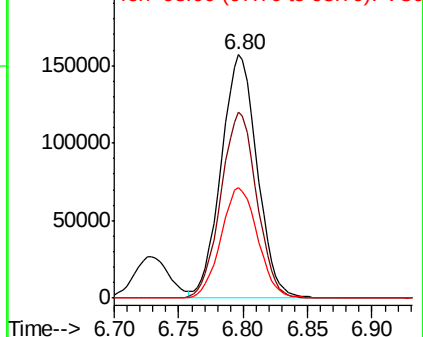


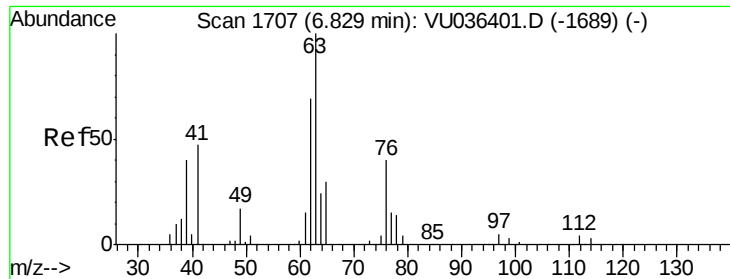
#35
 Methylcyclohexane
 Concen: 46.291 ug/L
 RT: 6.80 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Tgt Ion: 83 Resp: 302456
 Ion Ratio Lower Upper
 83 100
 55 76.7 60.0 90.0
 98 46.5 36.2 54.4



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

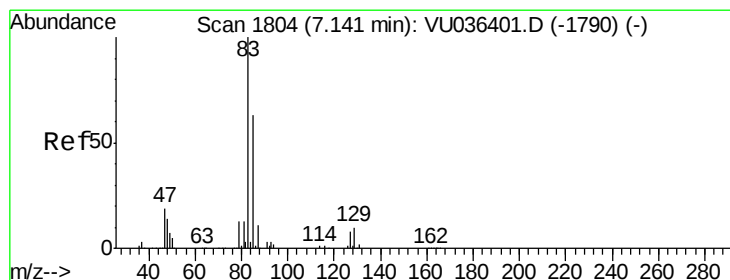
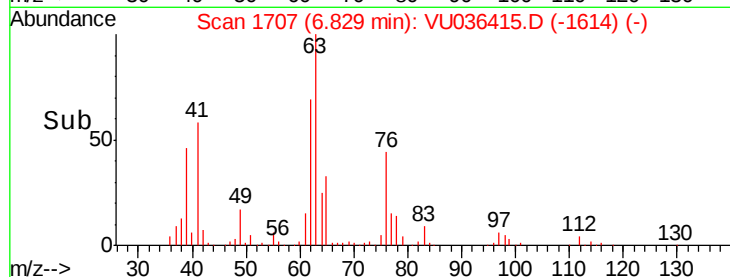
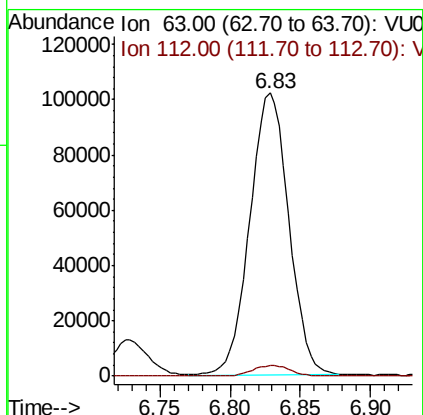
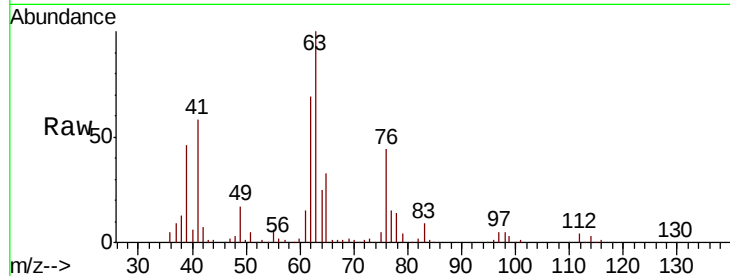




#37
 1,2-Dichloropropane
 Concen: 45.876 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

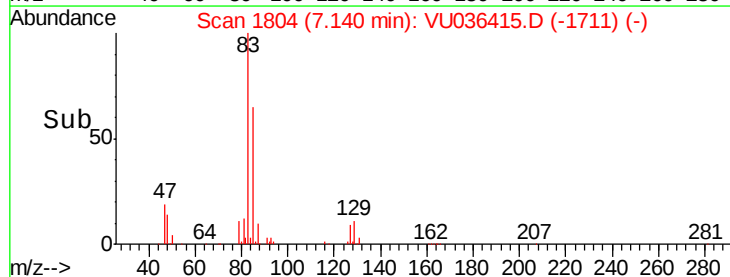
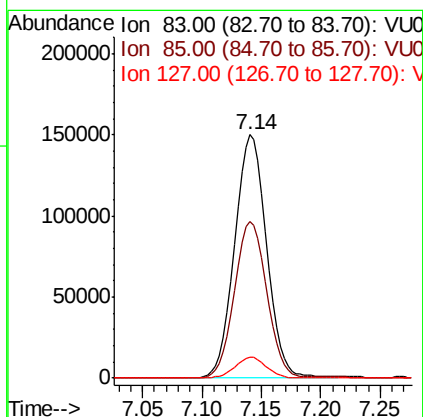
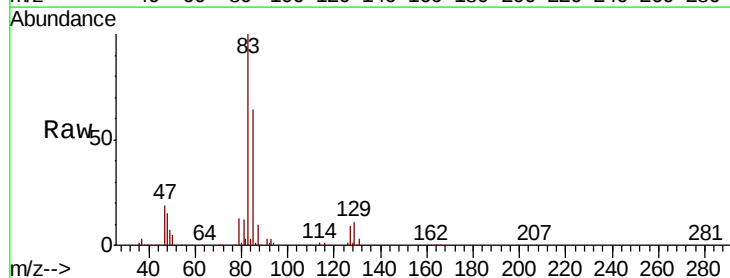
Instrument :
 MSVOA_U
 ClientSampled :

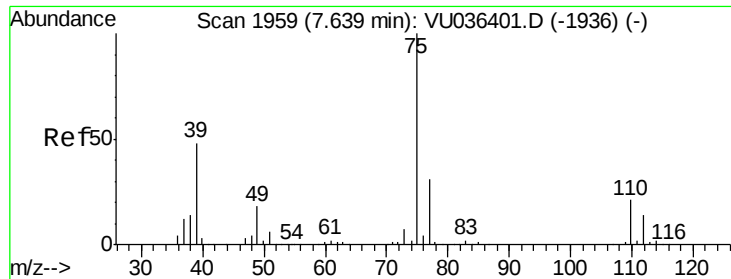
Tot Ion: 63 Resp: 197249
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 45.953 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Tgt Ion: 83 Resp: 278736
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.3 84.1
 127 8.6 6.8 10.2

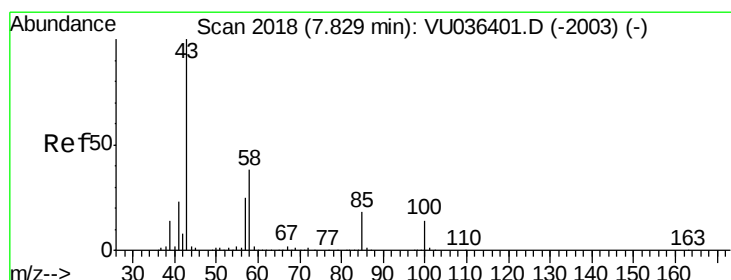
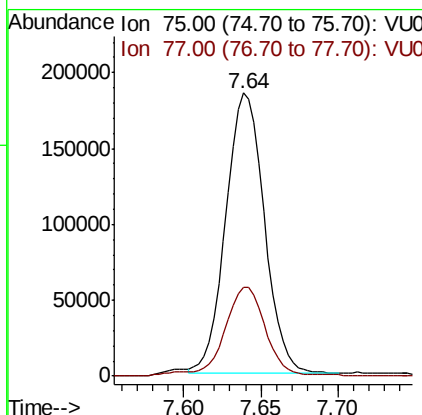
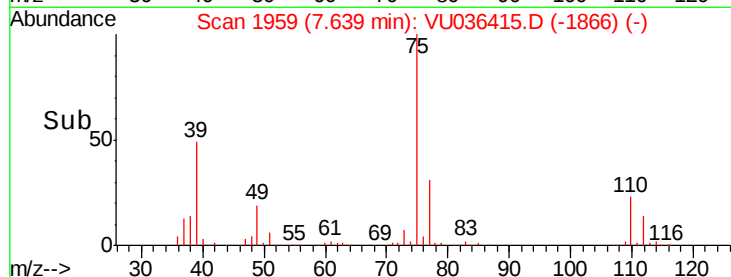
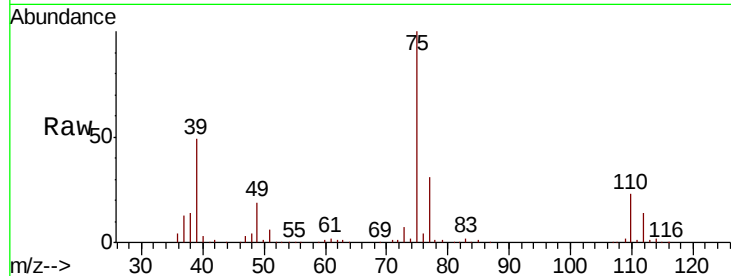




#39
 cis-1,3-Dichloropropene
 Concen: 44.319 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

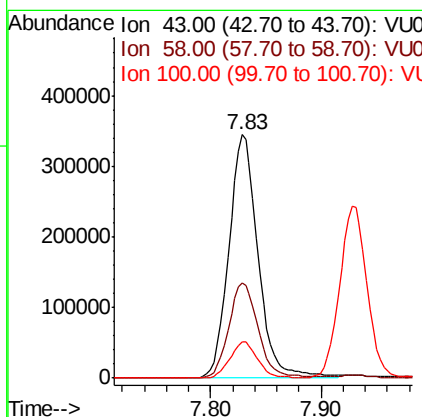
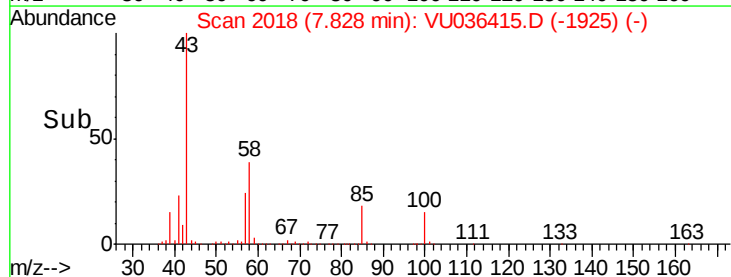
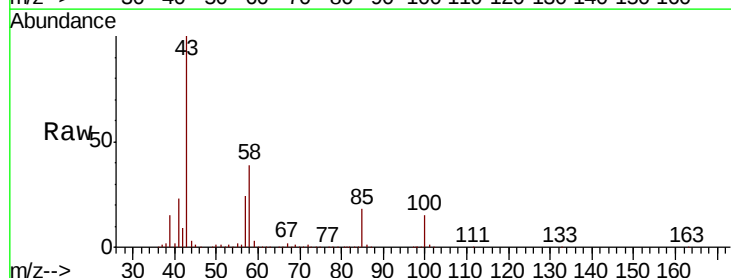
Instrument :
 MSVOA_U
 ClientSampleId :

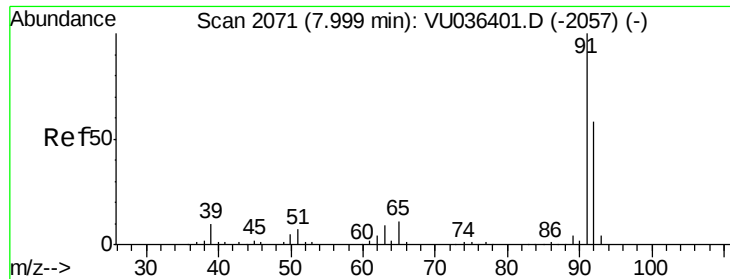
Tot Ion: 75 Resp: 319002
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 86.408 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Tgt Ion: 43 Resp: 631332
 Ion Ratio Lower Upper
 43 100
 58 39.3 31.6 47.4
 100 14.2 11.6 17.4





#42

Toluene

Concen: 47.021 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

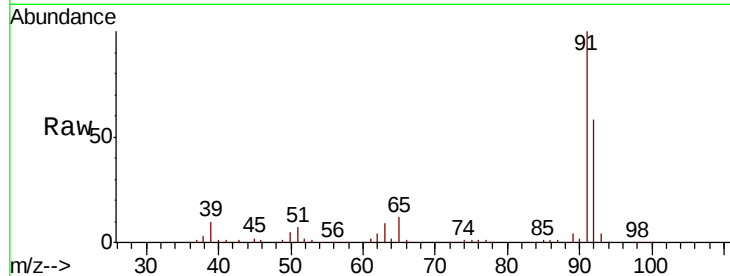
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 822135

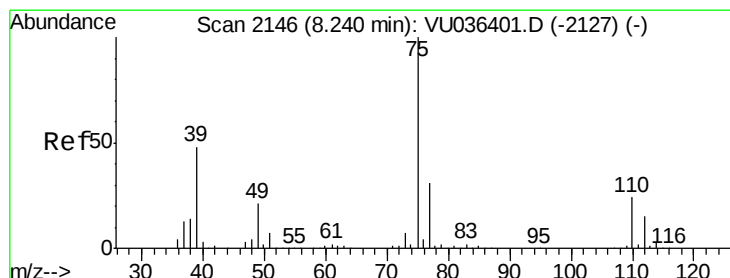
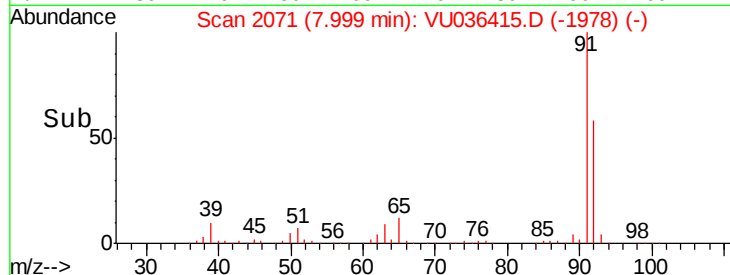
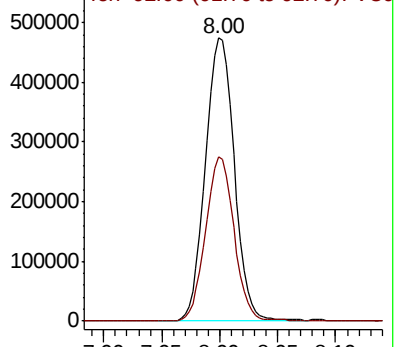
Ion Ratio Lower Upper

91 100

92 58.0 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU036415.D (-1978) (-)



#44

trans-1,3-Dichloropropene

Concen: 45.830 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036415.D

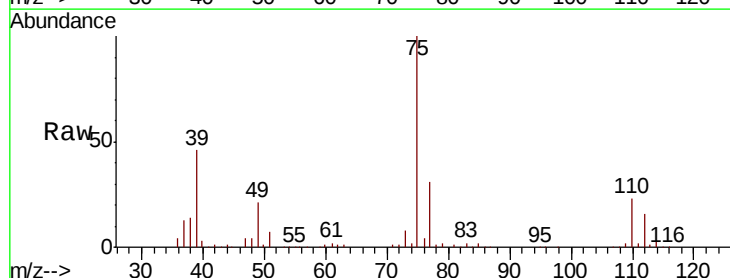
Acq: 09 Jan 2020 12:12

Tgt Ion: 75 Resp: 307313

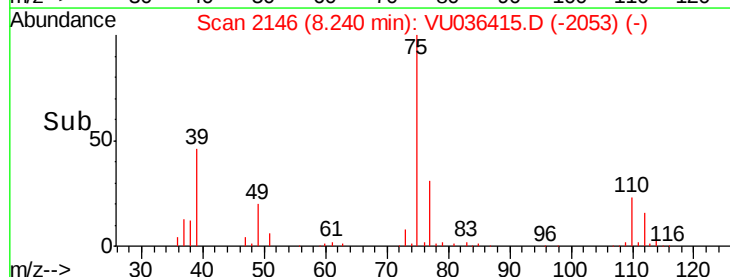
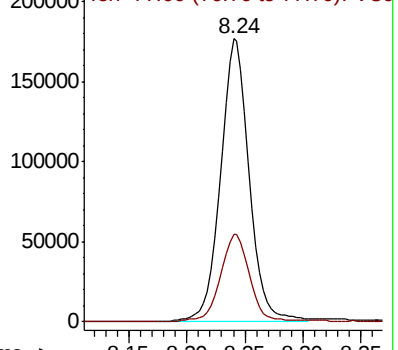
Ion Ratio Lower Upper

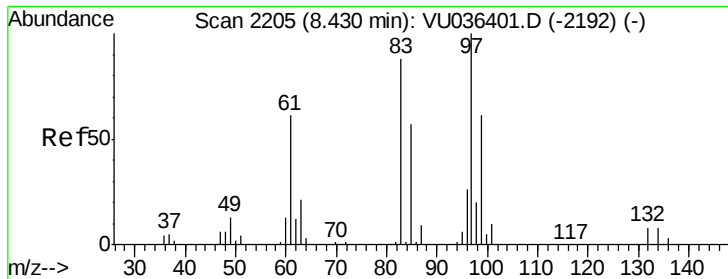
75 100

77 30.9 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU036415.D (-2053) (-)

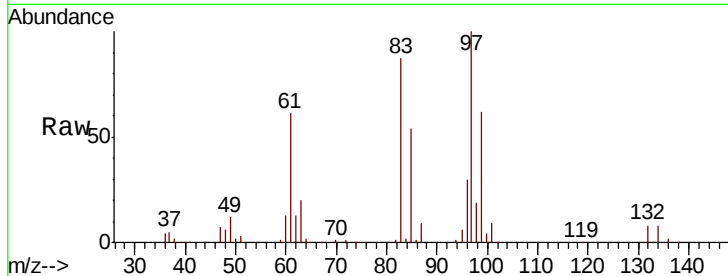




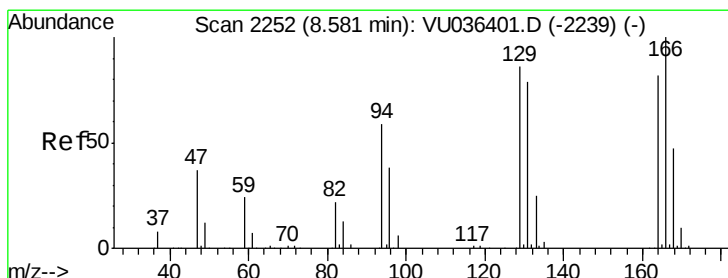
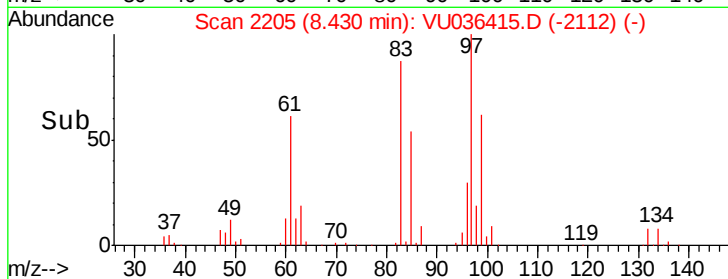
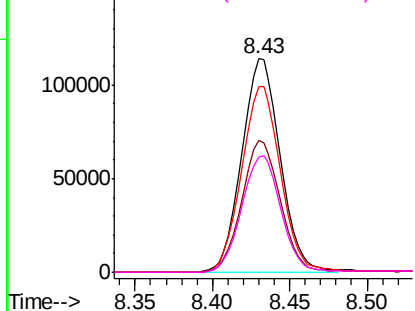
#45
1,1,2-Trichloroethane
Concen: 49.219 ug/L
RT: 8.43 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	197432
Ion	Ratio	Lower	Upper
97	100		
99	61.9	44.2	82.2
83	86.6	62.5	116.1
85	53.7	38.1	70.7

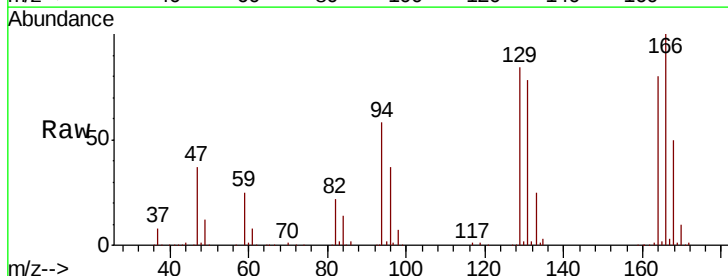


Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

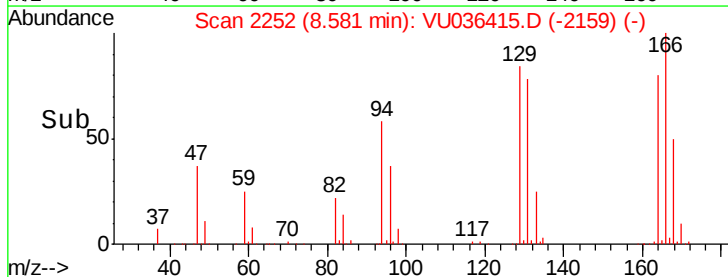
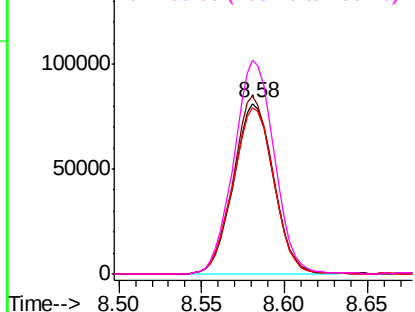


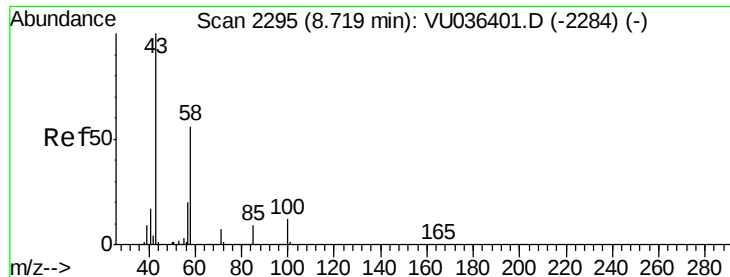
#46
Tetrachloroethene
Concen: 46.365 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Tgt Ion:	164	Resp:	136561
Ion	Ratio	Lower	Upper
164	100		
129	104.6	70.0	130.0
131	97.7	70.1	130.1
166	125.3	87.2	161.9



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

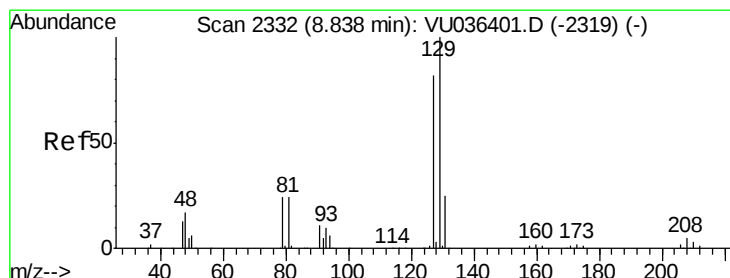
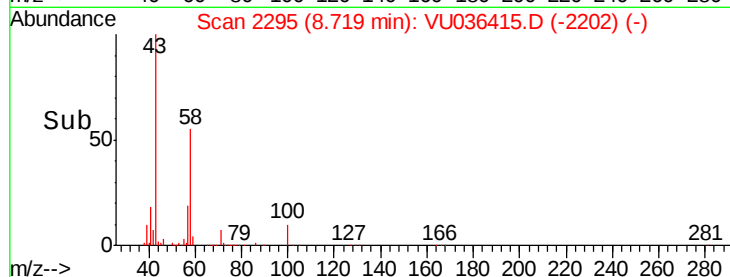
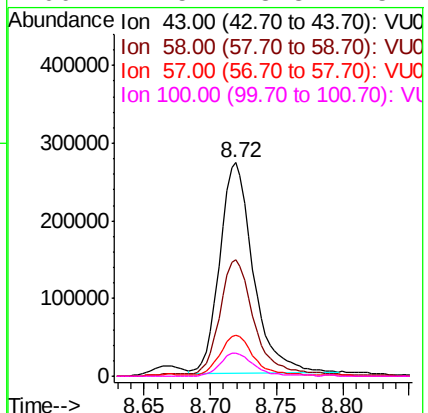
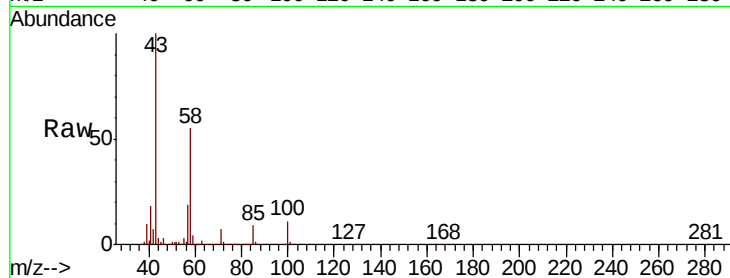




#48
2-Hexanone
Concen: 84.258 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. -0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

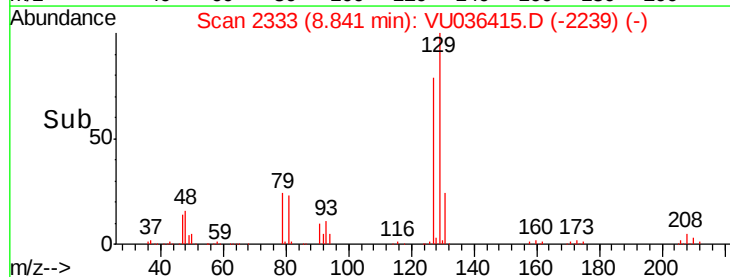
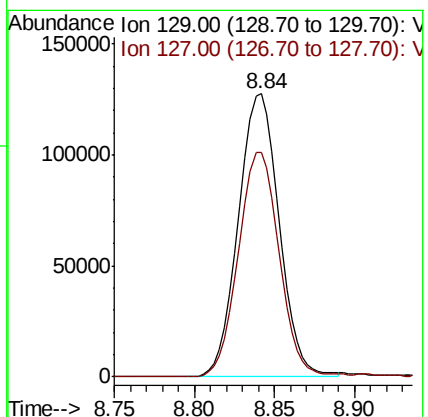
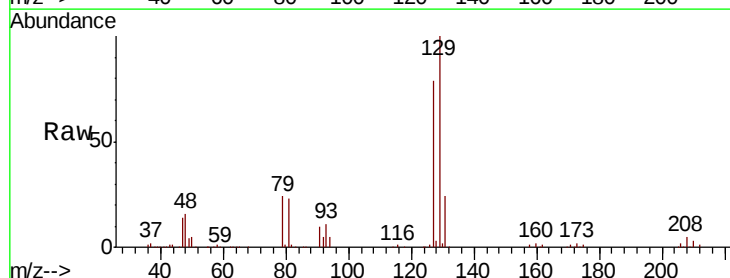
Instrument :
MSVOA_U
ClientSampleId :

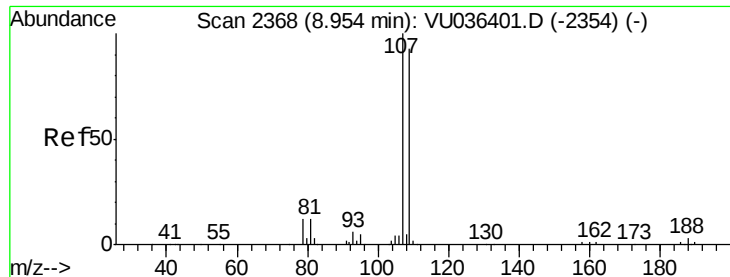
Tot Ion: 43 Resp: 473685
Ion Ratio Lower Upper
43 100
58 59.3 42.2 63.4
57 20.8 14.8 22.2
100 11.5 8.8 13.2



#49
Dibromochloromethane
Concen: 45.174 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036415.D
Acq: 09 Jan 2020 12:12

Tgt Ion: 129 Resp: 222425
Ion Ratio Lower Upper
129 100
127 79.4 54.8 101.8

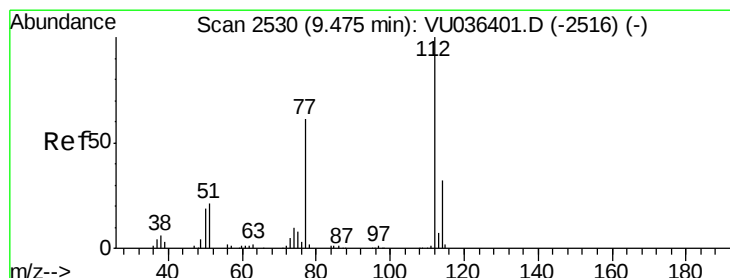
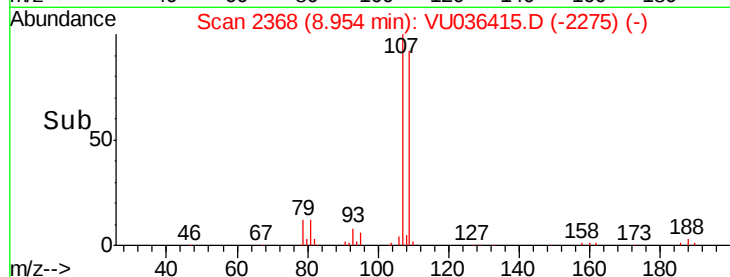
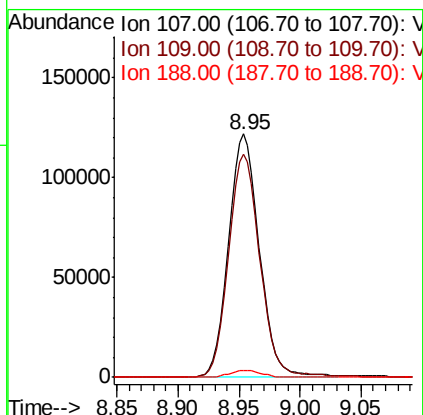
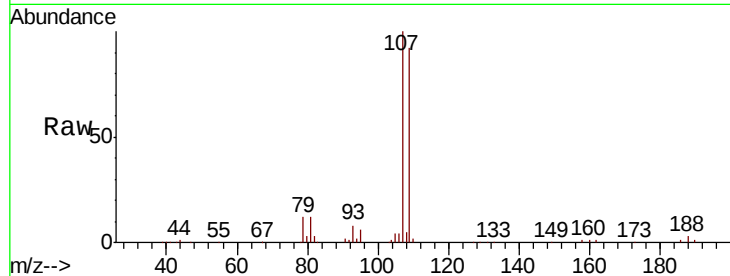




#50
 1,2-Dibromoethane
 Concen: 46.279 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

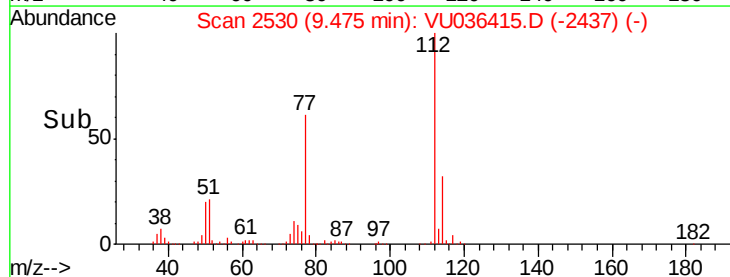
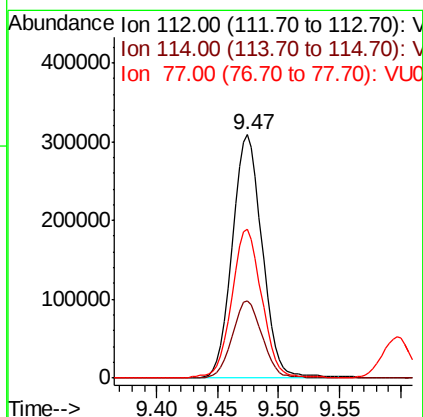
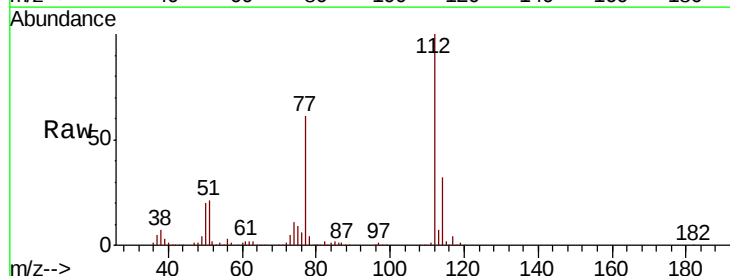
Instrument :
 MSVOA_U
 ClientSampleId :

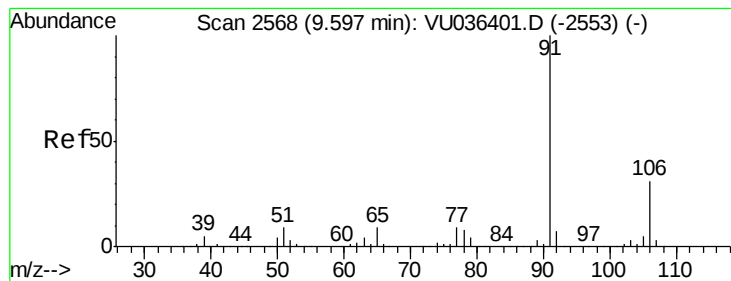
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.8	67.3	124.9
188	3.0	2.6	3.8



#51
 Chlorobenzene
 Concen: 47.701 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	60.9	48.7	73.1





#52

Ethylbenzene

Concen: 47.305 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

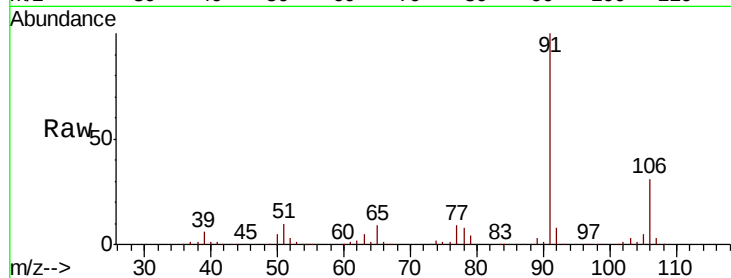
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 941366

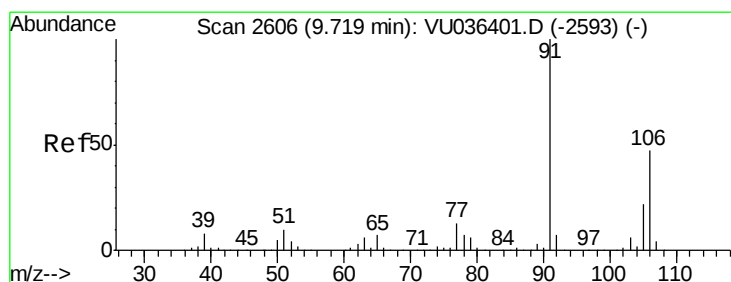
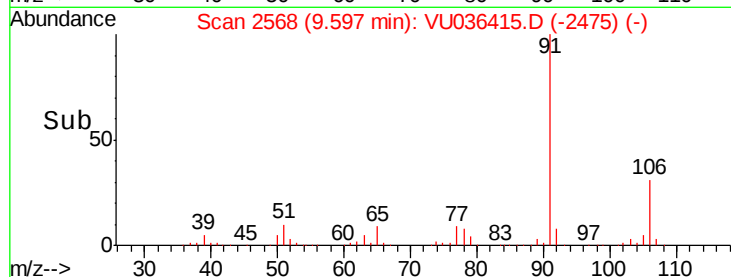
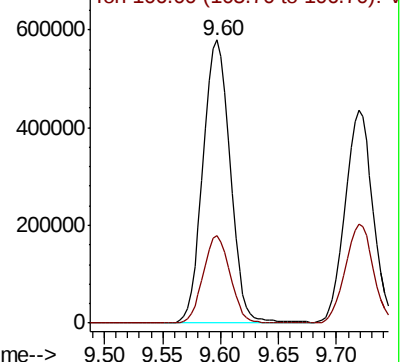
Ion Ratio Lower Upper

91 100

106 30.9 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU036415.D (-2475) (-)



#53

m,p-Xylene

Concen: 46.341 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036415.D

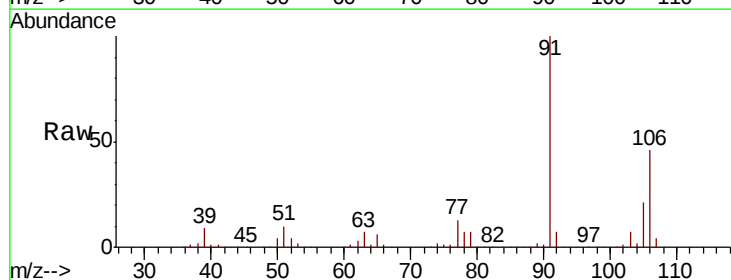
Acq: 09 Jan 2020 12:12

Tgt Ion: 106 Resp: 342081

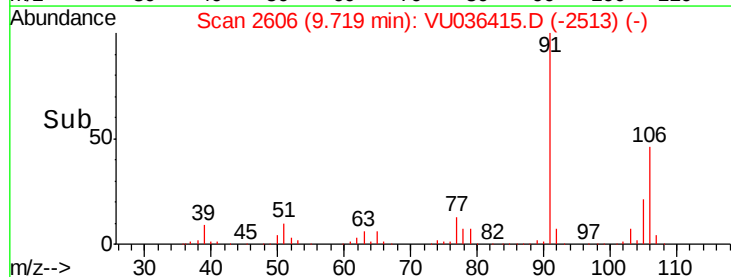
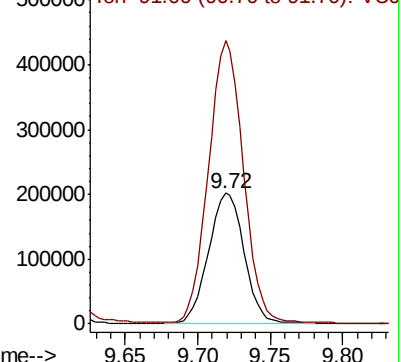
Ion Ratio Lower Upper

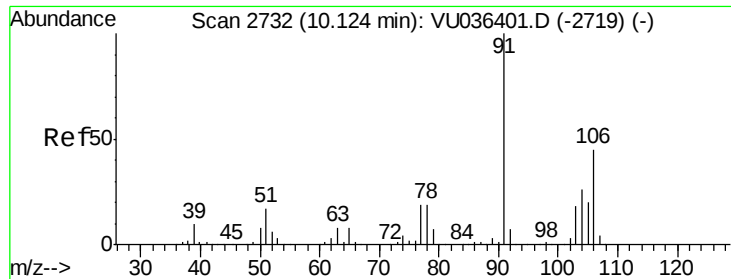
106 100

91 216.4 146.8 272.6



Abundance Ion 106.00 (105.70 to 106.70): VU036415.D (-2513) (-)





#54

o-xylene

Concen: 47.153 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

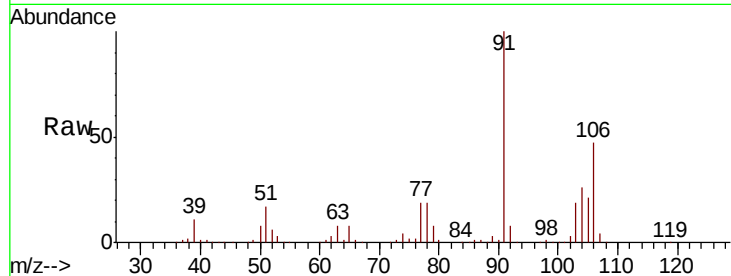
ClientSampled :

Tot Ion:106 Resp: 349255

Ion Ratio Lower Upper

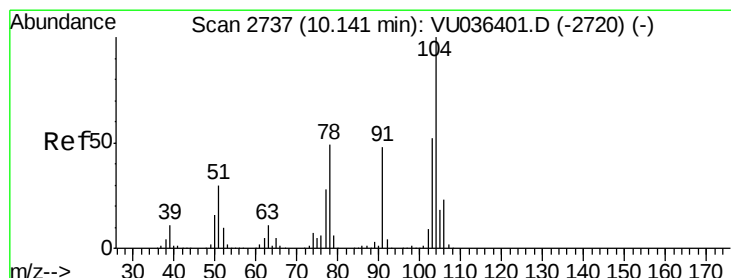
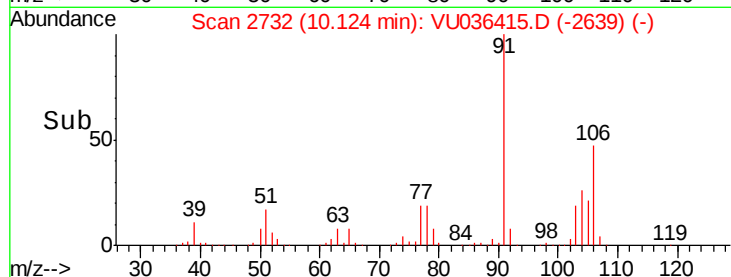
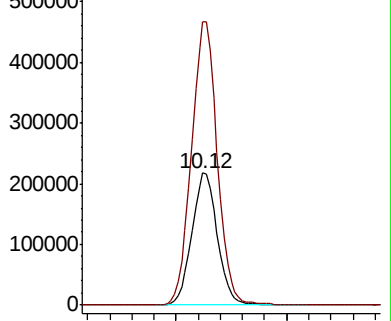
106 100

91 214.4 156.4 290.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 46.951 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036415.D

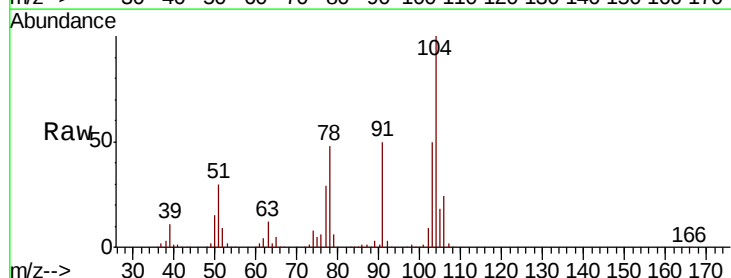
Acq: 09 Jan 2020 12:12

Tgt Ion:104 Resp: 587997

Ion Ratio Lower Upper

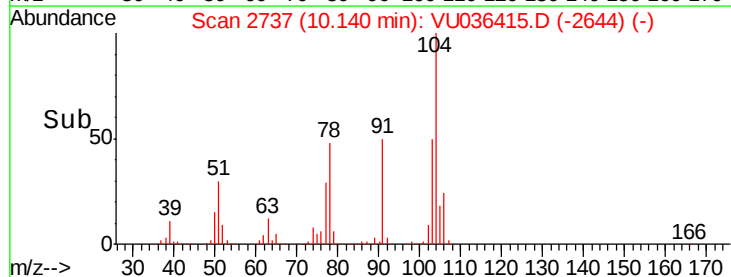
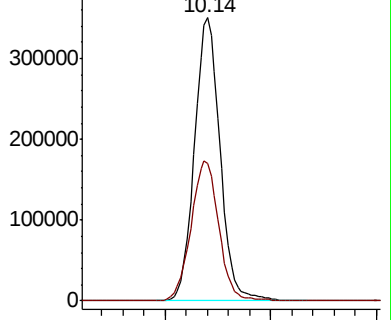
104 100

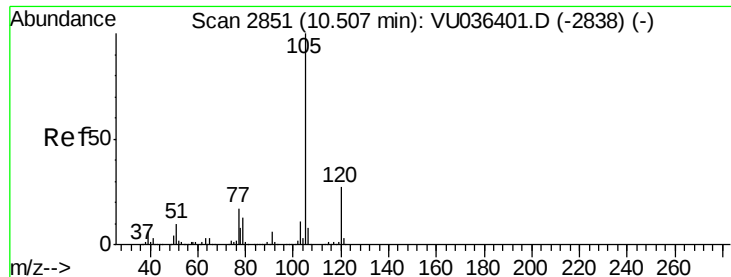
78 48.4 33.9 63.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.012 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

ClientSampleId :

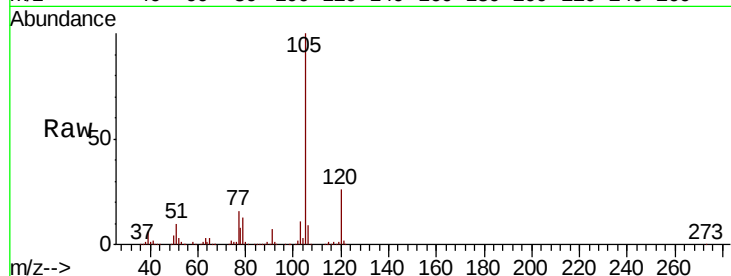
Tot Ion: 105 Resp: 926871

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

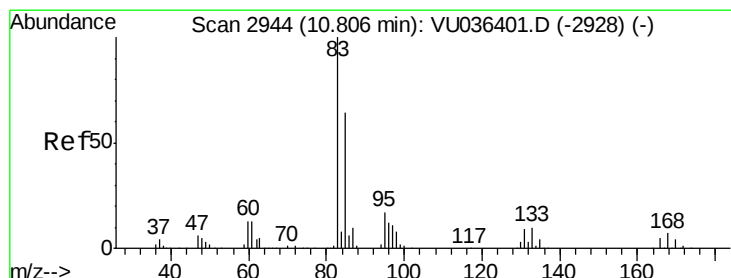
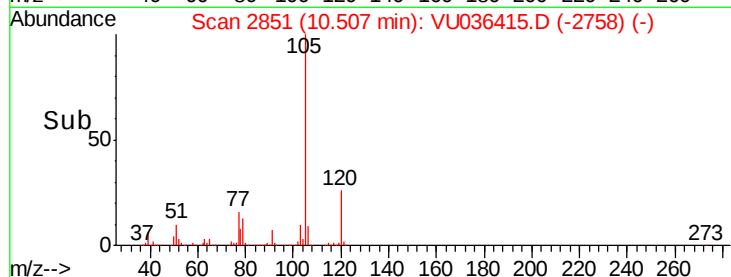
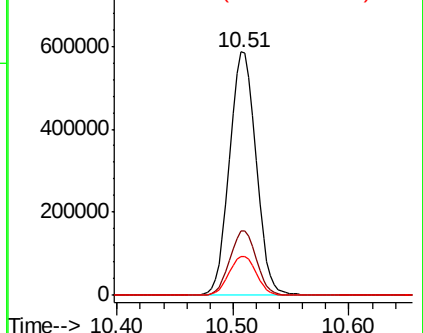
77 16.4 13.3 19.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.680 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

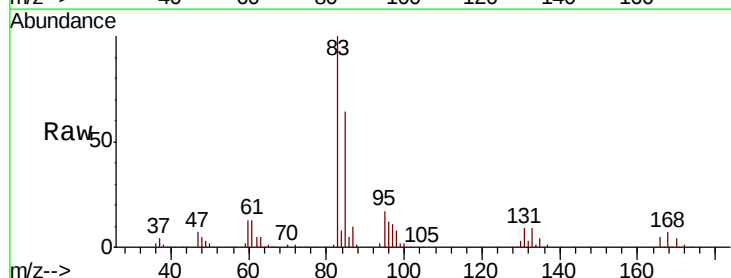
Tgt Ion: 83 Resp: 353939

Ion Ratio Lower Upper

83 100

85 64.3 45.3 84.1

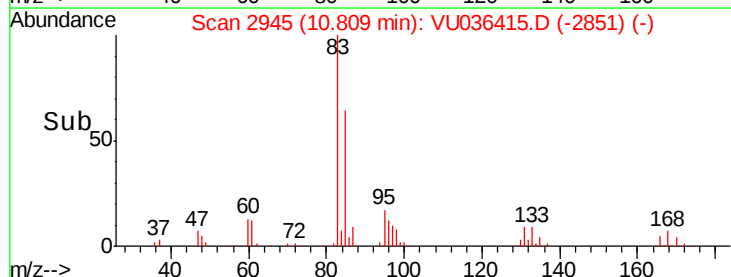
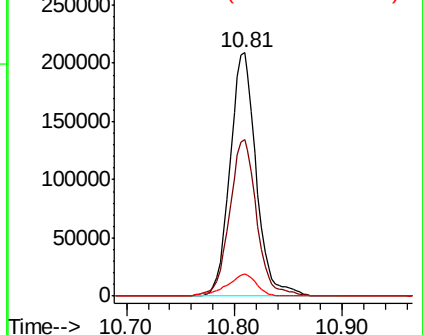
131 9.0 7.5 11.3

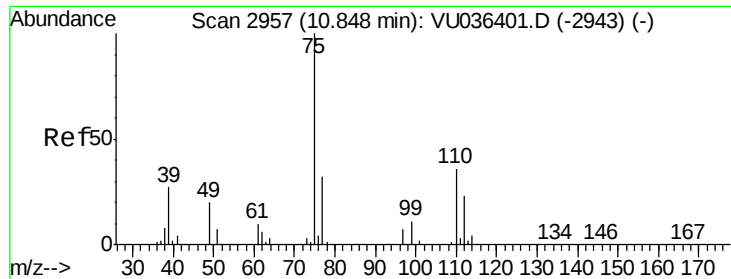


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.377 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

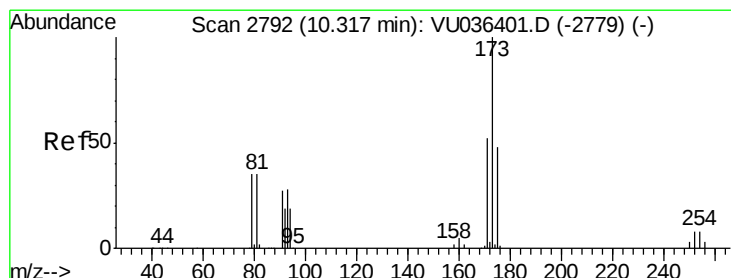
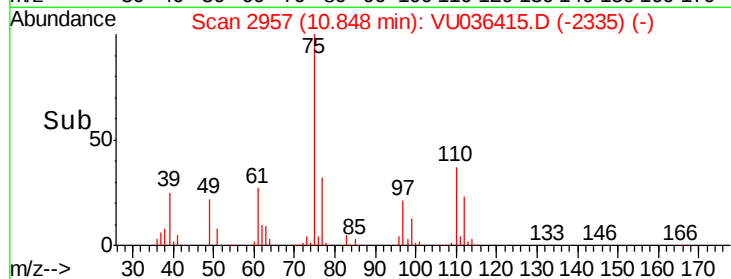
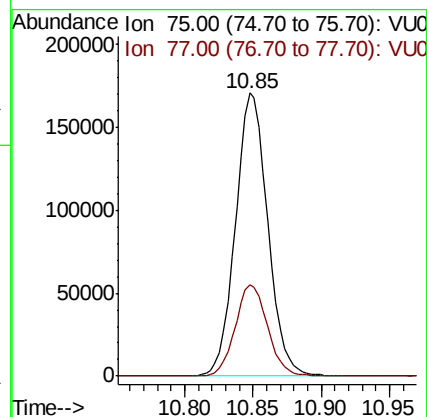
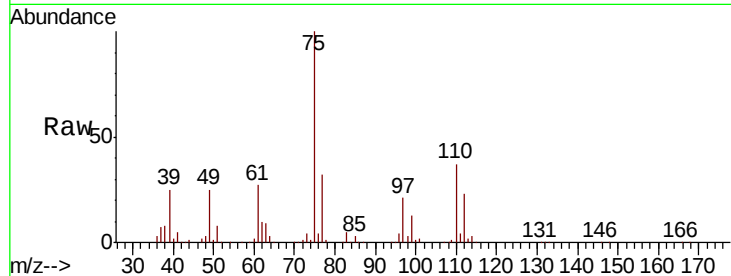
ClientSampleId :

Tot Ion: 75 Resp: 279777

Ion Ratio Lower Upper

75 100

77 32.4 26.3 39.5



#61

Bromoform

Concen: 43.580 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

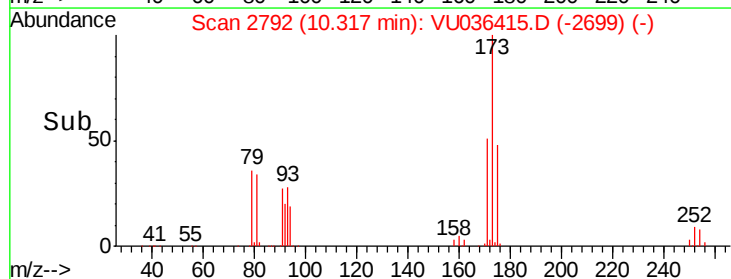
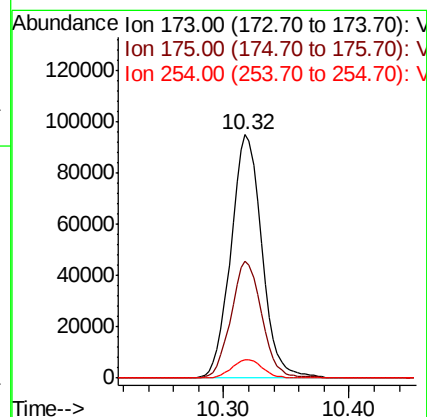
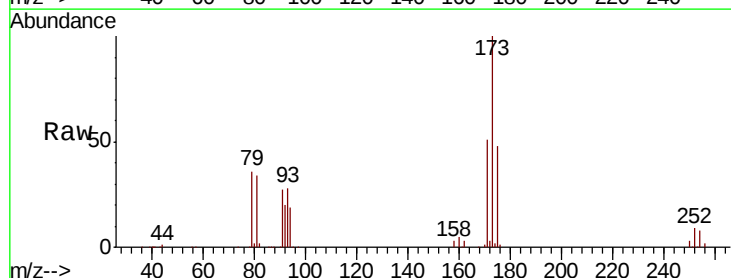
Tgt Ion: 173 Resp: 163081

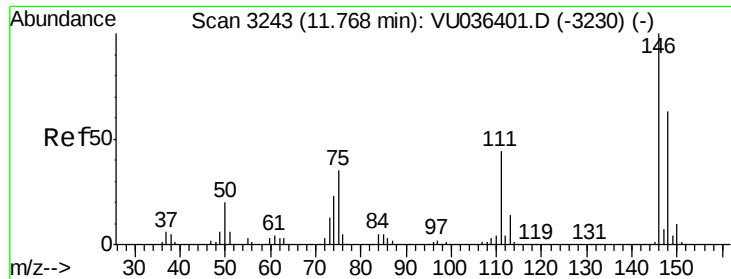
Ion Ratio Lower Upper

173 100

175 47.9 38.7 58.1

254 7.5 6.9 10.3





#62

1,3-Dichlorobenzene

Concen: 47.615 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

ClientSampleId :

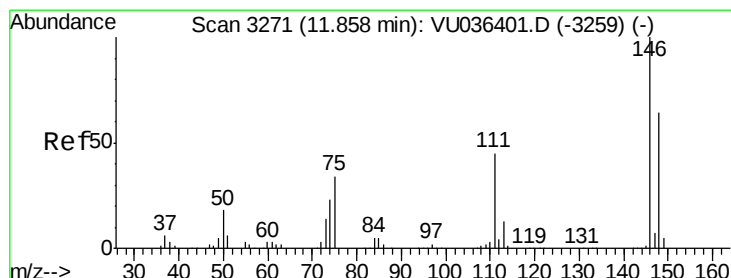
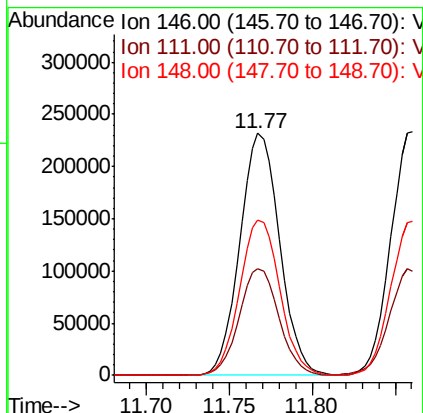
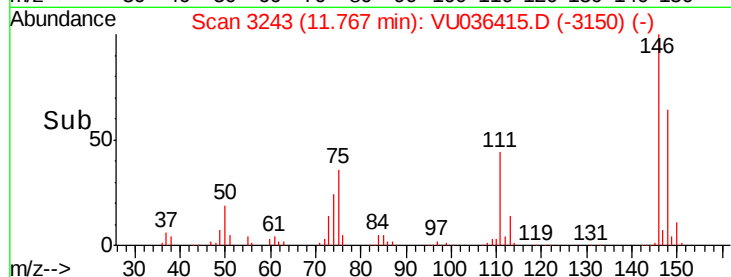
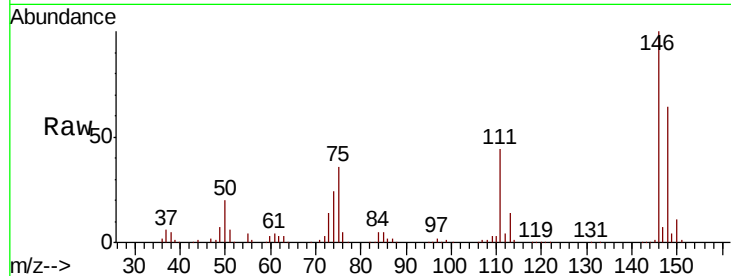
Tot Ion:146 Resp: 387470

Ion Ratio Lower Upper

146 100

111 44.4 29.1 54.1

148 64.3 46.9 87.1



#63

1,4-Dichlorobenzene

Concen: 47.208 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

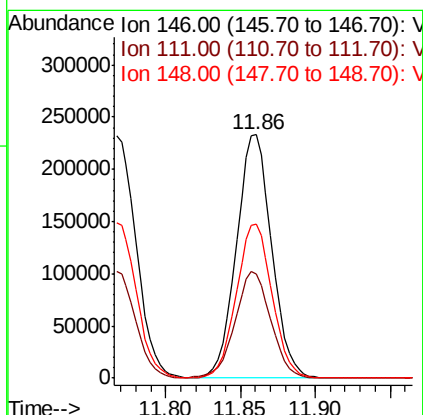
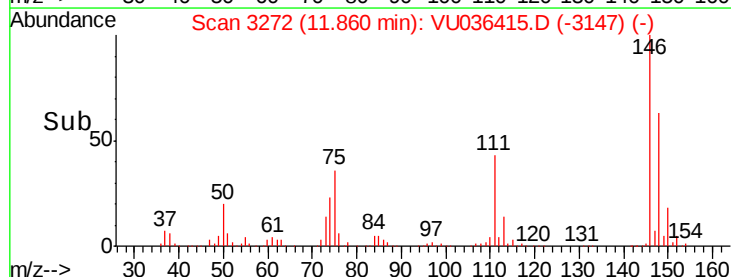
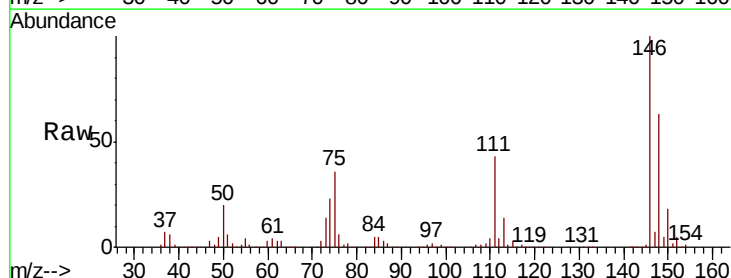
Tgt Ion:146 Resp: 381074

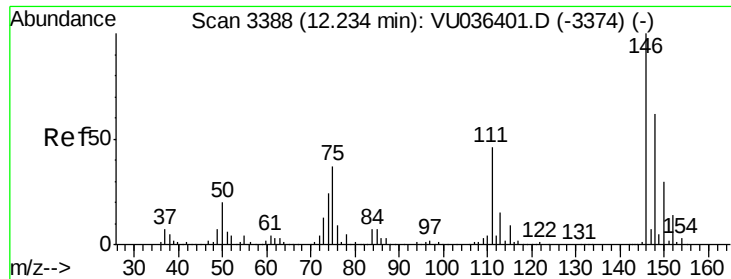
Ion Ratio Lower Upper

146 100

111 42.7 29.7 55.1

148 63.1 45.6 84.6





#65

1,2-Dichlorobenzene

Concen: 47.353 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

ClientSampleId :

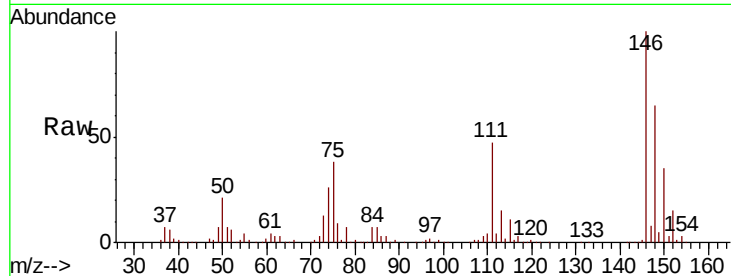
Tot Ion:146 Resp: 386082

Ion Ratio Lower Upper

146 100

111 47.0 33.4 50.2

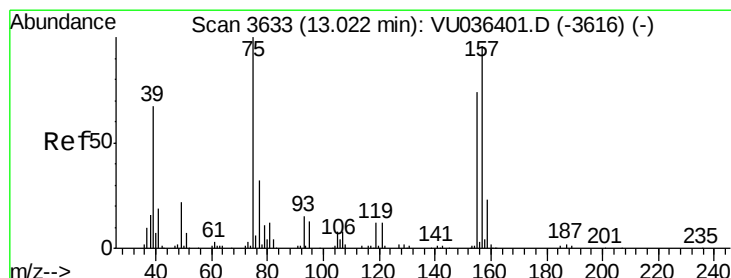
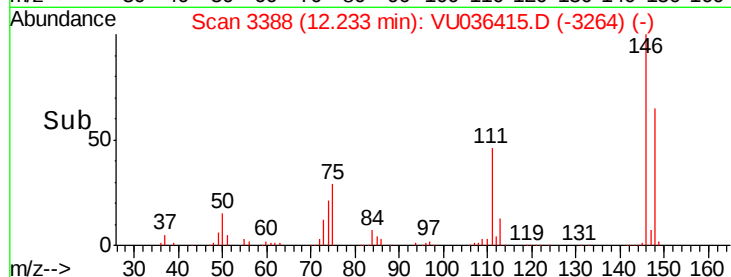
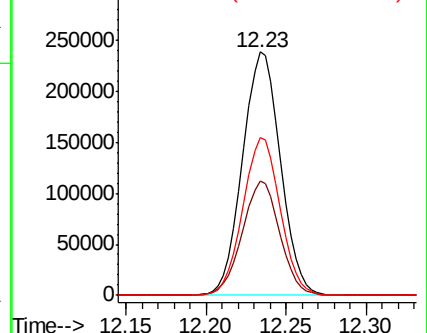
148 65.1 50.7 76.1



Abundance Ion 146.00 (145.70 to 146.70): 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: 41.127 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

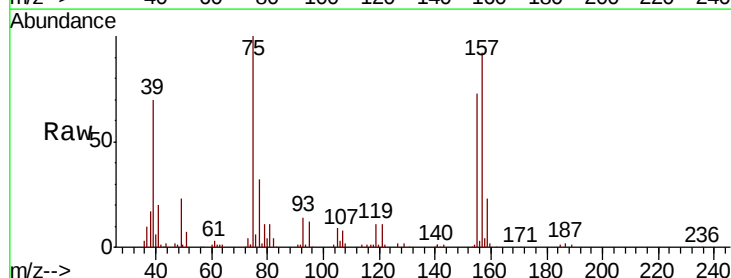
Tgt Ion: 75 Resp: 78246

Ion Ratio Lower Upper

75 100

155 72.9 61.8 92.6

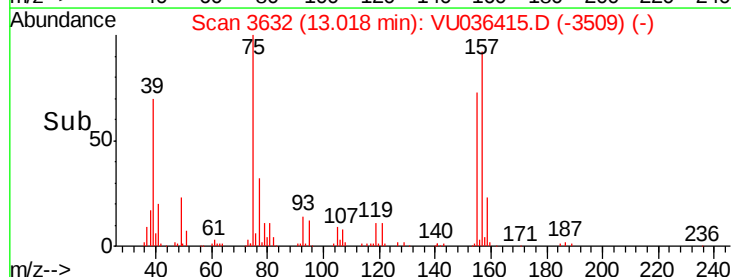
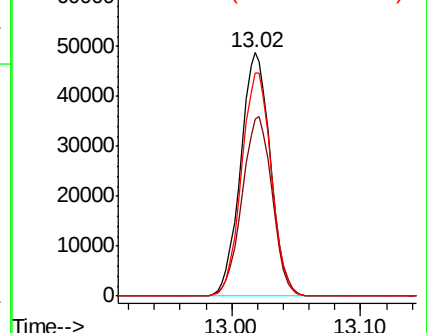
157 91.7 84.2 126.2

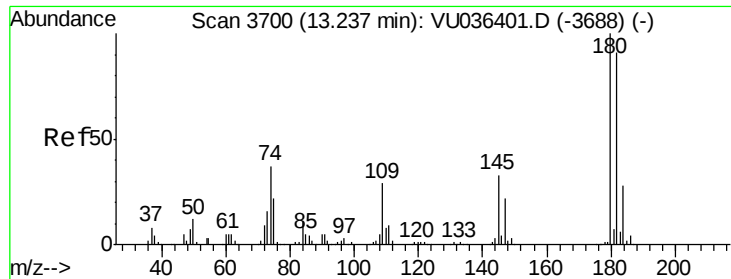


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

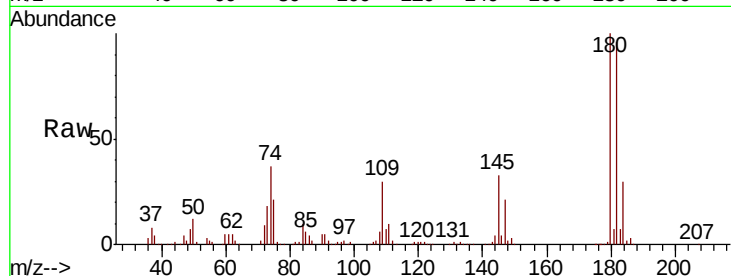




#67
 1,3,5-Trichlorobenzene
 Concen: 45.028 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	74.6	112.0
184	30.5	23.9	35.9
145	33.2	25.4	38.2



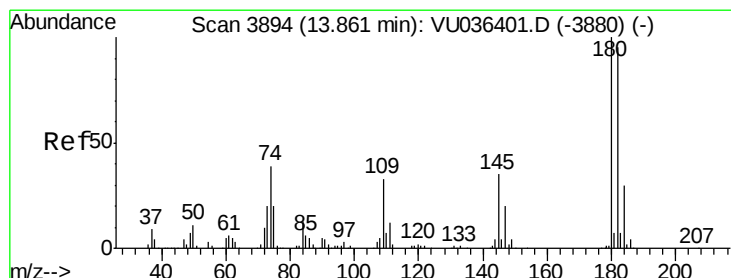
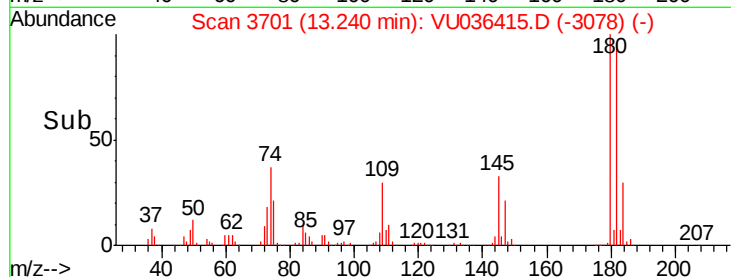
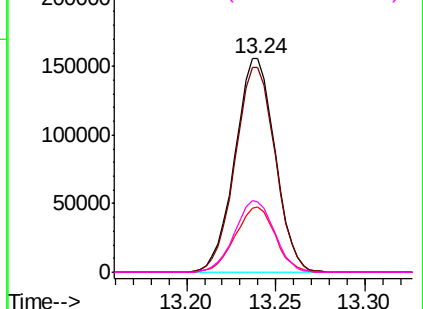
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

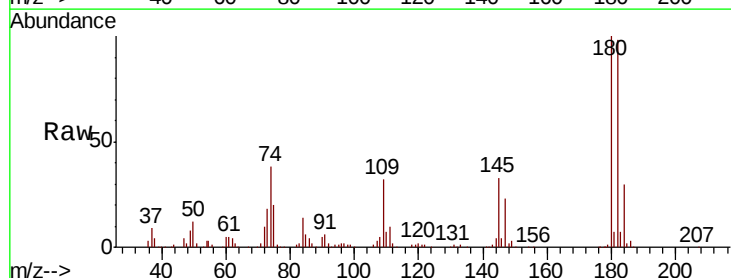
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 43.094 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU036415.D
 Acq: 09 Jan 2020 12:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	78.0	117.0
145	34.5	26.0	39.0

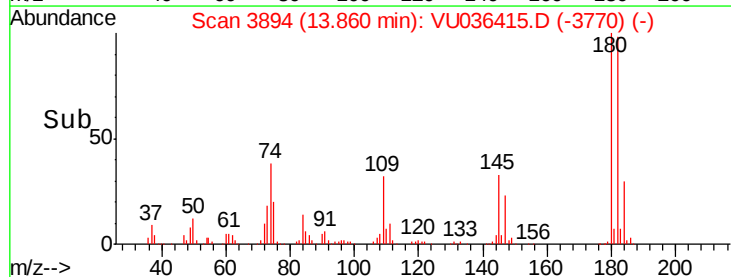
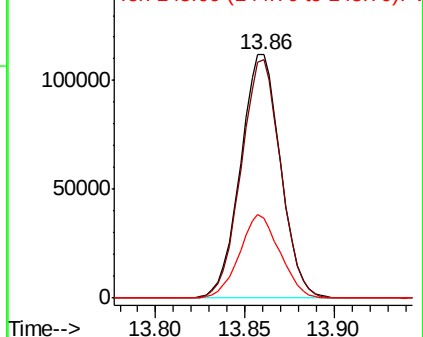


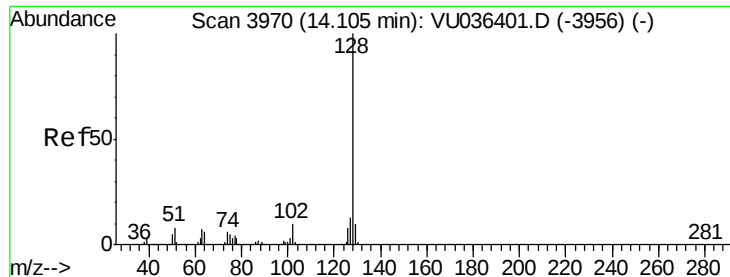
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 41.309 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

Instrument :

MSVOA_U

ClientSampleId :

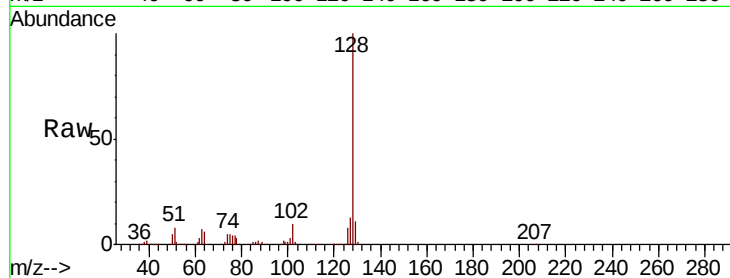
Tot Ion:128 Resp: 581321

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

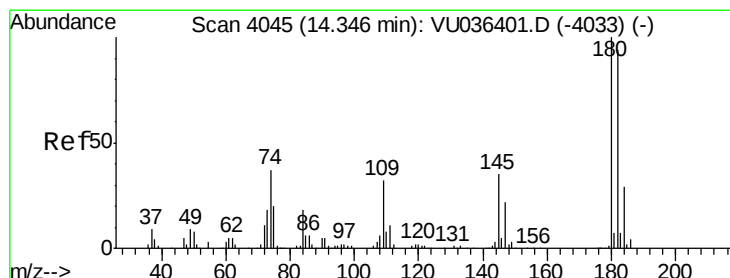
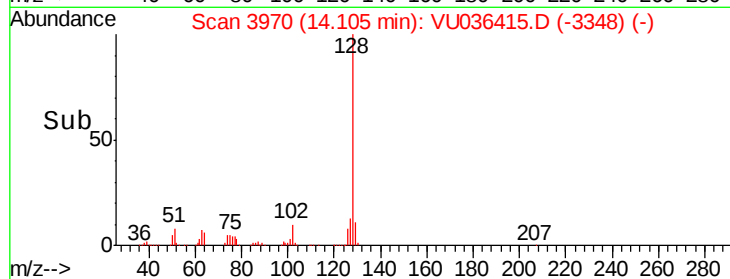
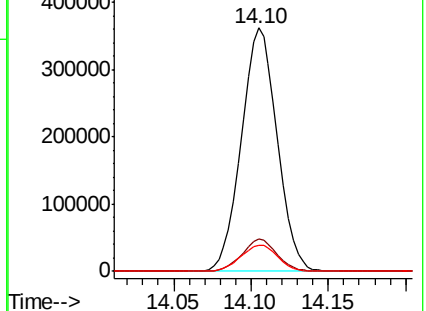
129 11.1 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 43.673 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036415.D

Acq: 09 Jan 2020 12:12

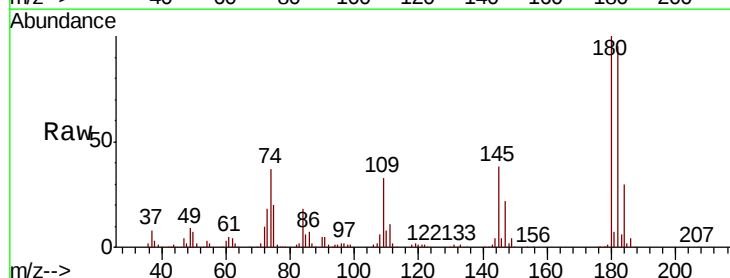
Tgt Ion:180 Resp: 187830

Ion Ratio Lower Upper

180 100

182 94.4 75.4 113.2

145 36.2 27.1 40.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

