

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102119\
 Data File : VU035325.D
 Acq On : 21 Oct 2019 15:02
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 21 15:25:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM101919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 21 05:38:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	686315	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	659962	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	300629	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	256557	43.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.92%
7) Chloroethane-d5	1.93	69	223156	45.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.08%
11) 1,1-Dichloroethene-d2	2.60	63	439602	45.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.24%
21) 2-Butanone-d5	4.70	46	401952	102.71	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.71%
24) Chloroform-d	5.11	84	459687	48.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.36%
26) 1,2-Dichloroethane-d4	5.75	65	297041	47.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.98%
32) Benzene-d6	5.77	84	906863	47.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.30%
36) 1,2-Dichloropropane-d6	6.74	67	294626	48.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.88%
41) Toluene-d8	7.93	98	846661	47.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.18%
43) trans-1,3-Dichloropropene-	8.21	79	151679	48.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.30%
47) 2-Hexanone-d5	8.68	63	289828	107.25	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.25%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	436456	48.28	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.56%
64) 1,2-Dichlorobenzene-d4	12.22	152	316885	45.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.94%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	263767	47.238	ug/L	99
3) Chloromethane	1.54	50	295990	51.152	ug/L	99
5) Vinyl chloride	1.62	62	288398	48.990	ug/L	99
6) Bromomethane	1.87	94	159241	45.145	ug/L	98
8) Chloroethane	1.95	64	180008	49.711	ug/L	100
9) Trichlorofluoromethane	2.16	101	357461	48.064	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	205779	47.469	ug/L	99
12) 1,1-Dichloroethene	2.61	96	204564	48.615	ug/L	99
13) Acetone	2.67	43	324358	92.961	ug/L	99
14) Carbon disulfide	2.83	76	615006	46.400	ug/L	100
15) Methyl Acetate	3.00	43	262442	50.887	ug/L	99
16) Methylene chloride	3.09	84	246379	49.380	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	219128	48.608	ug/L	99
18) Methyl tert-butyl Ether	3.42	73	724625	50.542	ug/L	100
19) 1,1-Dichloroethane	3.92	63	426560	49.687	ug/L	100
20) cis-1,2-Dichloroethene	4.72	96	254792	49.802	ug/L	98
22) 2-Butanone	4.78	43	418374	99.101	ug/L	97

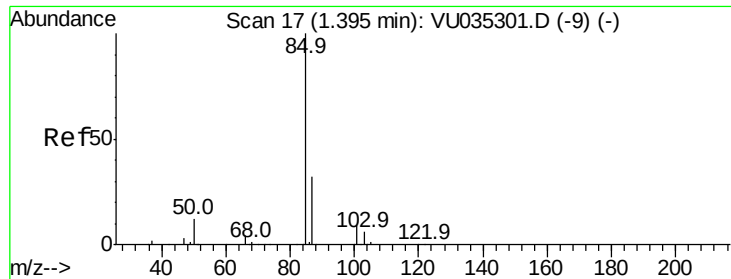
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102119\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	125716	48.993	ug/L	99
25) Chloroform	5.14	83	437859	49.415	ug/L	100
27) 1,2-Dichloroethane	5.84	62	340857	49.649	ug/L	99
29) Cyclohexane	5.43	56	359660	48.738	ug/L	99
30) 1,1,1-Trichloroethane	5.37	97	362103	50.126	ug/L	99
31) Carbon tetrachloride	5.57	117	314677	49.793	ug/L	100
33) Benzene	5.82	78	954280	51.143	ug/L	100
34) Trichloroethene	6.58	95	235880	49.062	ug/L	98
35) Methylcyclohexane	6.80	83	358067	48.170	ug/L	99
37) 1,2-Dichloropropane	6.84	63	247760	51.276	ug/L	100
38) Bromodichloromethane	7.15	83	327048	50.594	ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	411202	52.663	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	720169	100.883	ug/L	99
42) Toluene	8.01	91	1025217	50.195	ug/L	99
44) trans-1,3-Dichloropropene	8.25	75	369930	50.702	ug/L	99
45) 1,1,2-Trichloroethane	8.44	97	238100	49.992	ug/L	99
46) Tetrachloroethene	8.59	164	186655	48.058	ug/L	99
48) 2-Hexanone	8.73	43	584768	96.302	ug/L	99
49) Dibromochloromethane	8.84	129	262764	49.437	ug/L	97
50) 1,2-Dibromoethane	8.96	107	258440	49.049	ug/L	98
51) Chlorobenzene	9.48	112	644133	48.355	ug/L	98
52) Ethylbenzene	9.60	91	1111598	48.829	ug/L	100
53) m,p-Xylene	9.73	106	411133	48.993	ug/L	97
54) o-xylene	10.13	106	408826	49.116	ug/L	99
55) Styrene	10.14	104	689256	50.847	ug/L	99
56) Isopropylbenzene	10.51	105	1054546	48.935	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	408018	49.007	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	323852	49.220	ug/L	99
61) Bromoform	10.32	173	203524	47.310	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	471303	48.247	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	467053	47.746	ug/L	100
65) 1,2-Dichlorobenzene	12.24	146	469227	48.121	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	78612	51.005	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	290485	53.141	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	204048	56.635	ug/L	99
69) Naphthalene	14.11	128	546928	55.148	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	216097	57.981	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.238 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

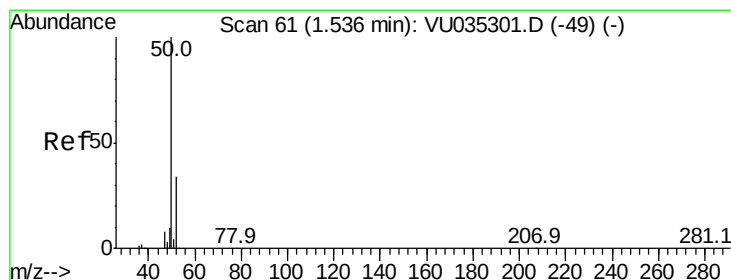
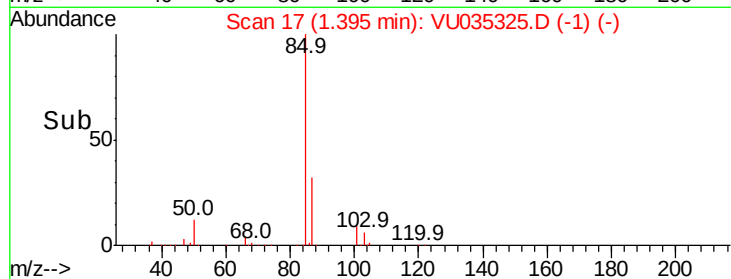
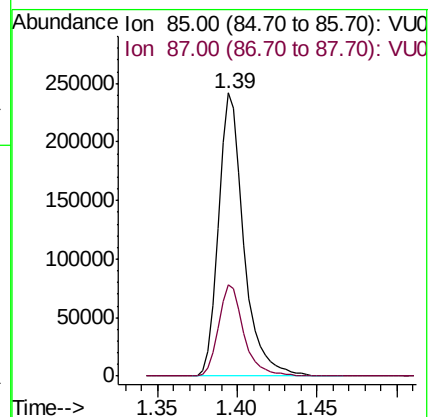
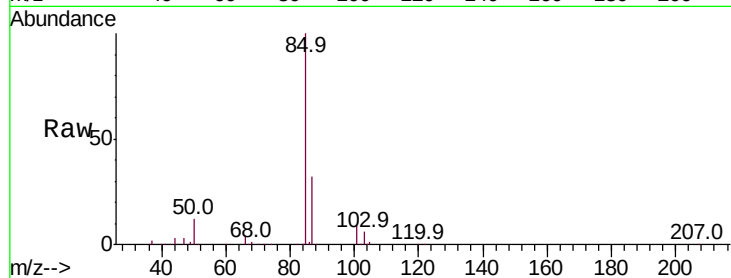
ClientSampleId :

Tot Ion: 85 Resp: 263767

Ion Ratio Lower Upper

85 100

87 32.4 25.5 38.3



#3

Chloromethane

Concen: 51.152 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035325.D

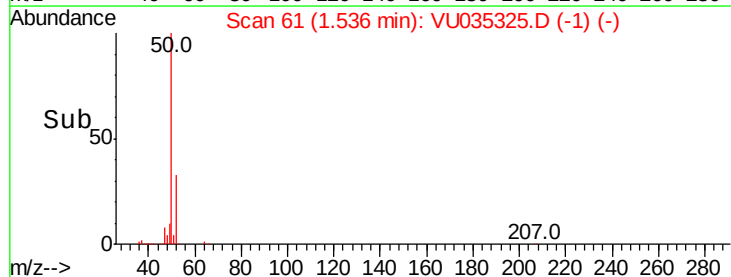
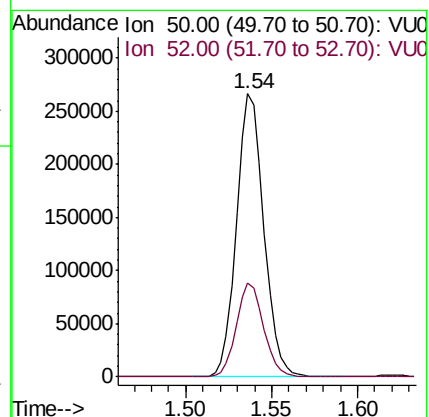
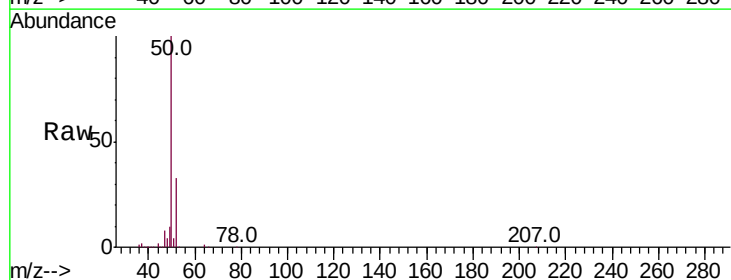
Acq: 21 Oct 2019 15:02

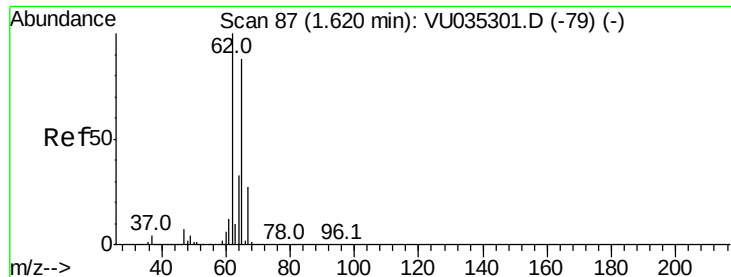
Tgt Ion: 50 Resp: 295990

Ion Ratio Lower Upper

50 100

52 33.1 23.6 43.8





#5

Vinyl chloride

Concen: 48.990 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

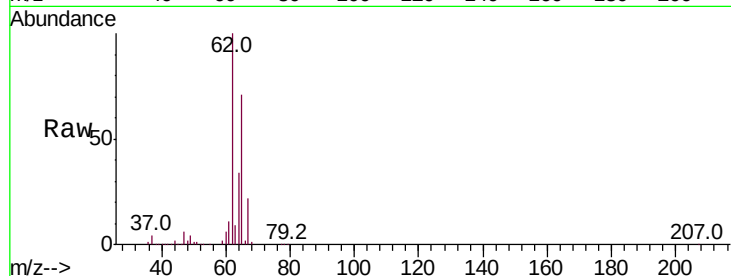
ClientSampled :

Tot Ion: 62 Resp: 288398

Ion Ratio Lower Upper

62 100

64 33.8 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU035301.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU035301.D (-79) (-)

1.62

250000

200000

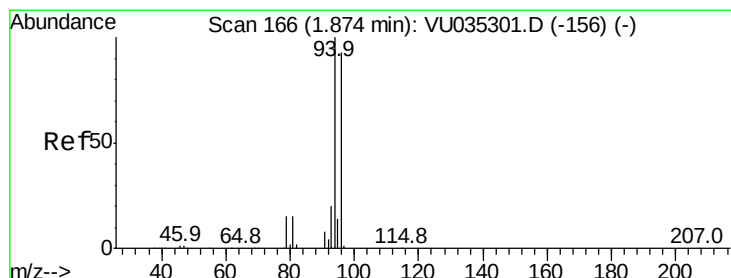
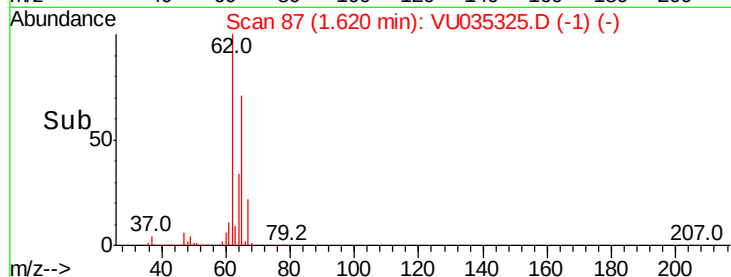
150000

100000

50000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 45.145 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035325.D

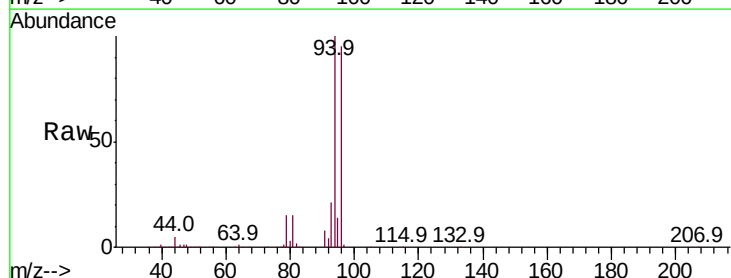
Acq: 21 Oct 2019 15:02

Tgt Ion: 94 Resp: 159241

Ion Ratio Lower Upper

94 100

96 94.6 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VU035301.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035301.D (-156) (-)

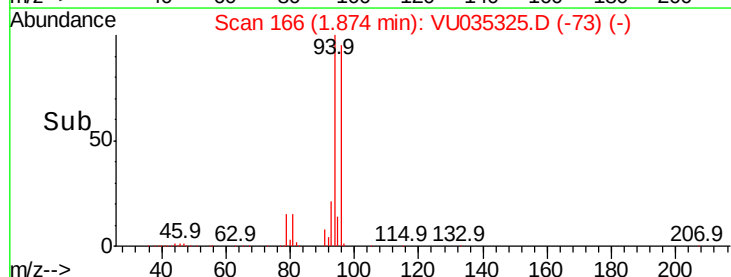
1.87

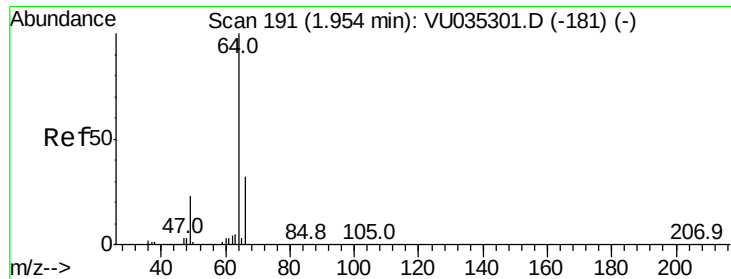
100000

50000

0

Time--> 1.80 1.85 1.90 1.95





#8

Chloroethane

Concen: 49.711 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

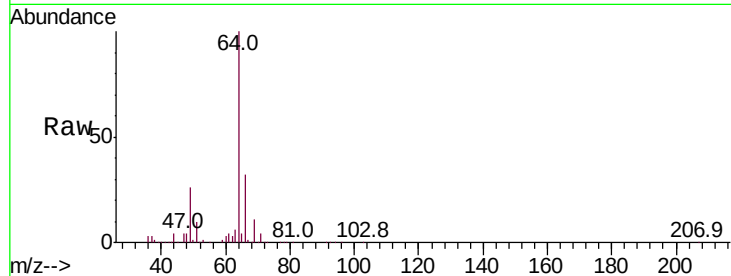
ClientSampleId :

Tot Ion: 64 Resp: 180008

Ion Ratio Lower Upper

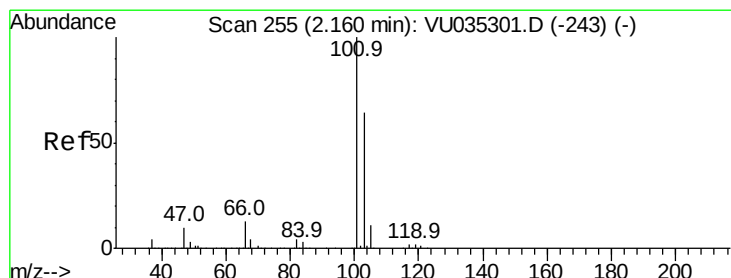
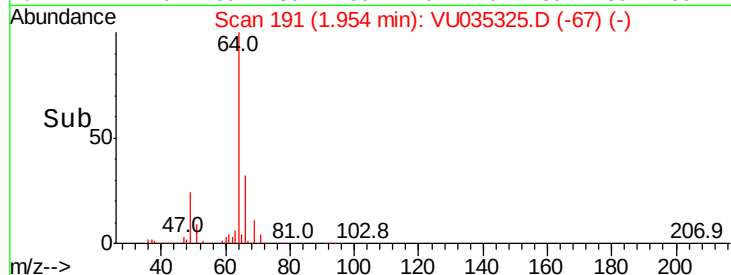
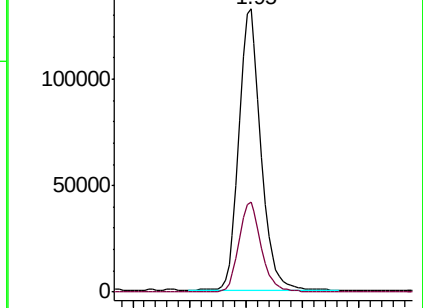
64 100

66 31.9 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU035301.D (-181) (-)

Ion 66.00 (65.70 to 66.70): VU035301.D (-181) (-)



#9

Trichlorofluoromethane

Concen: 48.064 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035325.D

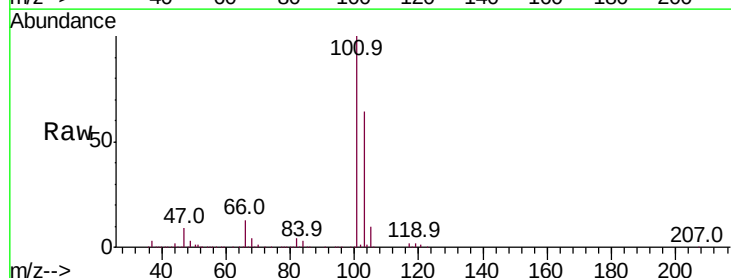
Acq: 21 Oct 2019 15:02

Tgt Ion: 101 Resp: 357461

Ion Ratio Lower Upper

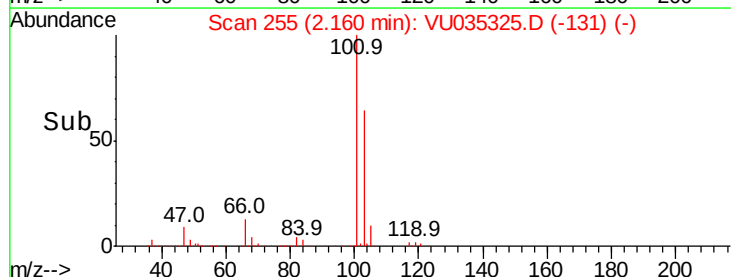
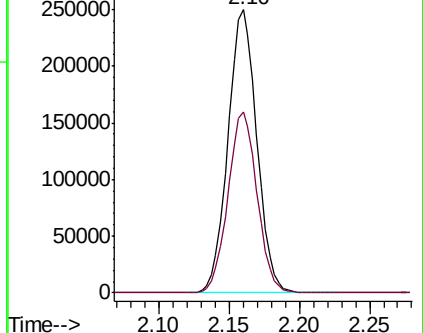
101 100

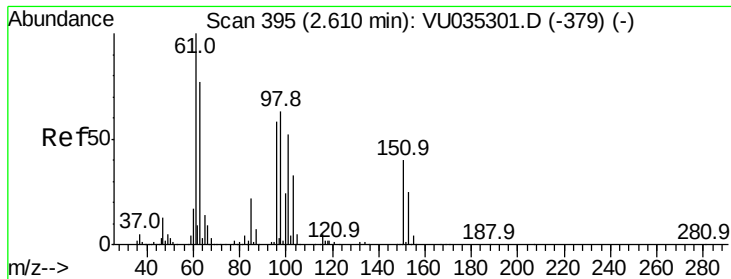
103 64.5 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU035301.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU035301.D (-243) (-)





#10

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

Concen: 47.469 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

ClientSampled :

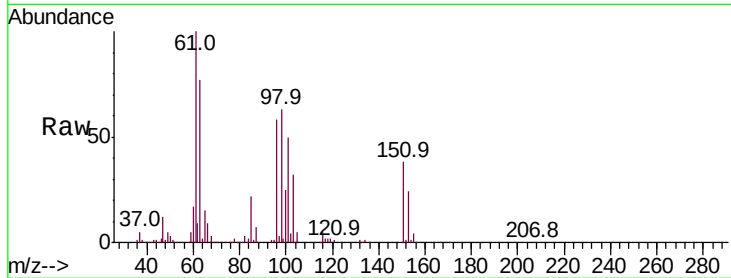
Tot Ion:101 Resp: 205779

Ion Ratio Lower Upper

101 100

85 42.9 33.7 50.5

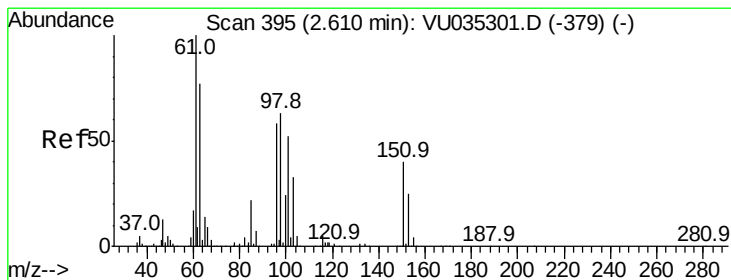
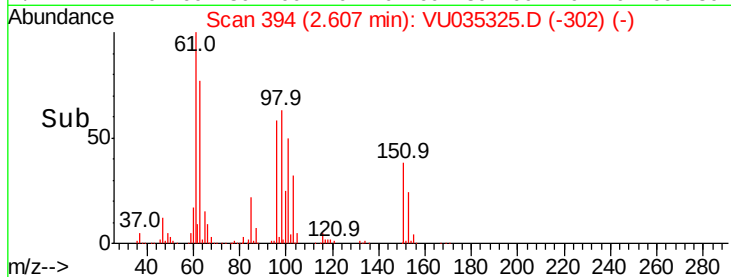
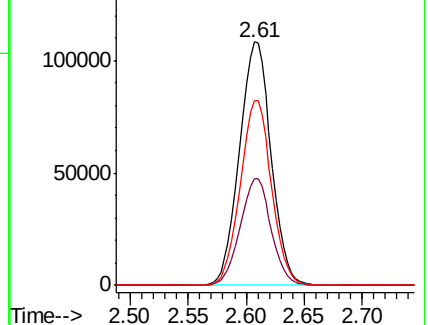
151 74.6 60.3 90.5



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: 48.615 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

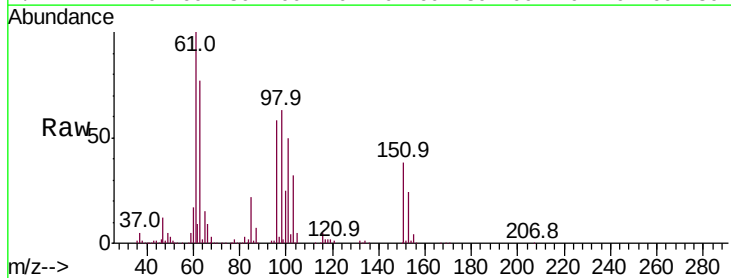
Tgt Ion: 96 Resp: 204564

Ion Ratio Lower Upper

96 100

61 171.9 121.1 224.9

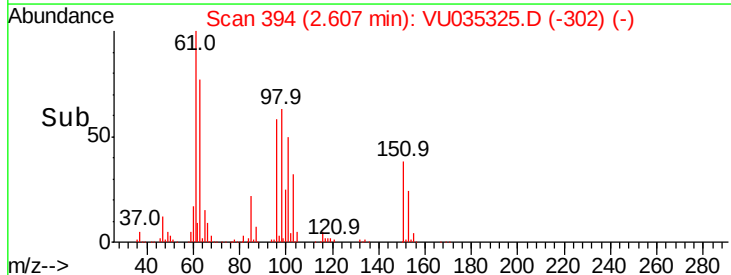
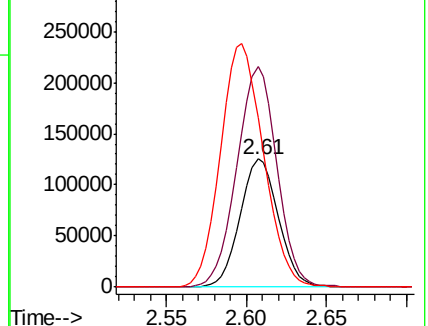
63 132.7 93.9 174.3

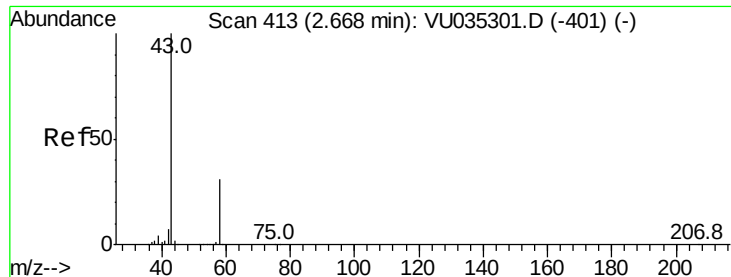


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.961 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

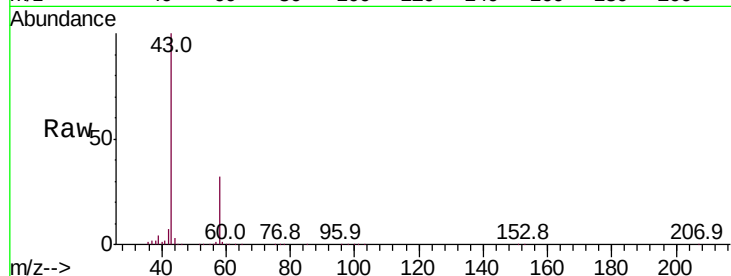
ClientSampleId :

Tot Ion: 43 Resp: 324358

Ion Ratio Lower Upper

43 100

58 32.2 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU035301.D (-401) (-)

Ion 58.00 (57.70 to 58.70): VU035301.D (-401) (-)

2.67

200000

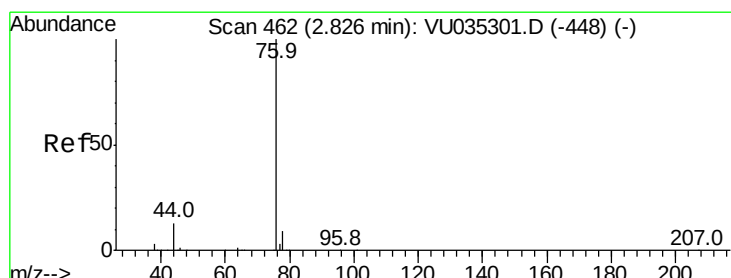
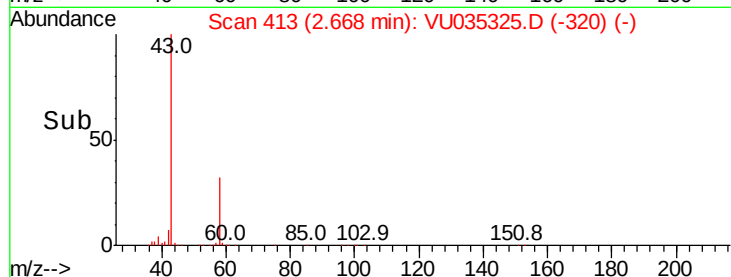
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 46.400 ug/L

RT: 2.83 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU035325.D

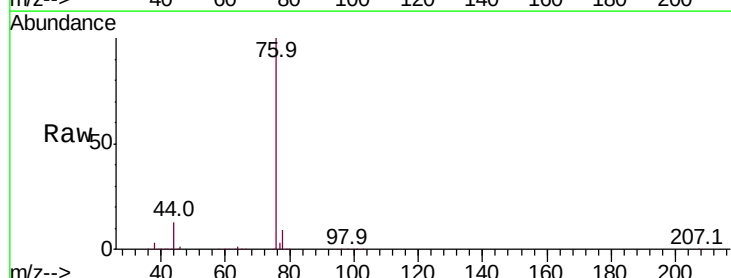
Acq: 21 Oct 2019 15:02

Tgt Ion: 76 Resp: 615006

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU035301.D (-448) (-)

Ion 78.00 (77.70 to 78.70): VU035301.D (-448) (-)

2.83

400000

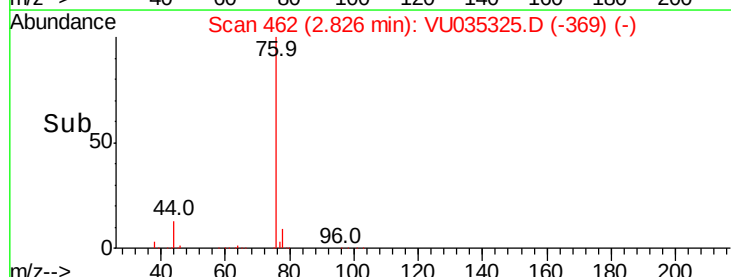
300000

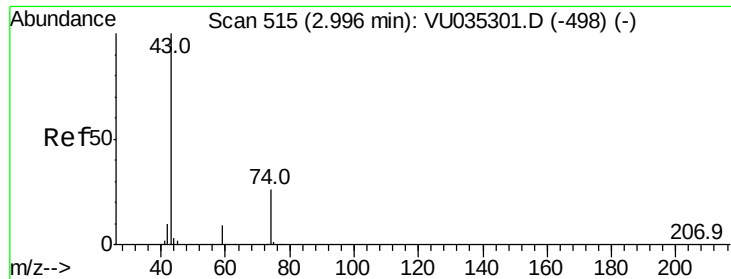
200000

100000

0

Time-->

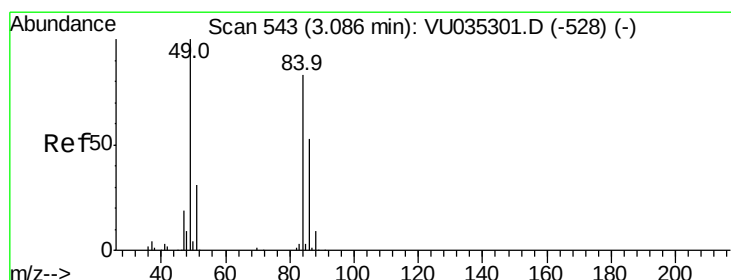
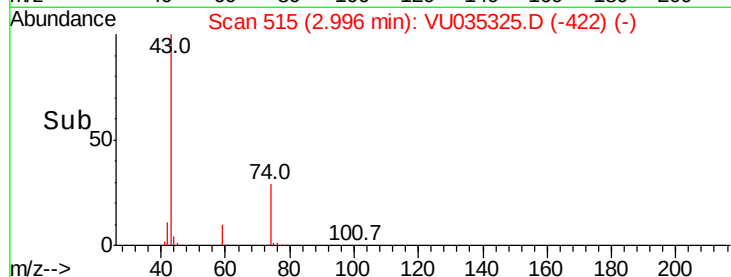
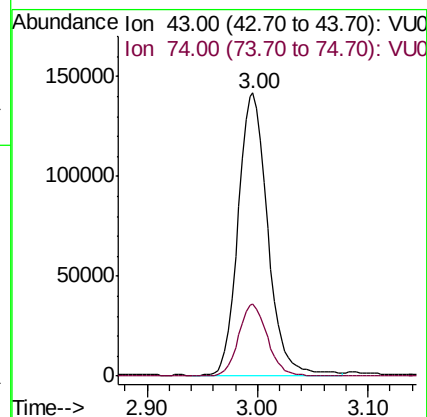
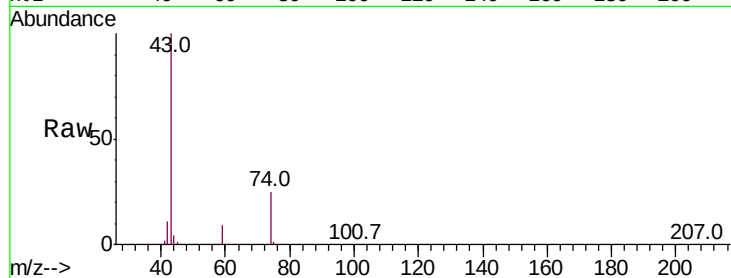




#15
Methvl Acetate
Concen: 50.887 ug/L
RT: 3.00 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

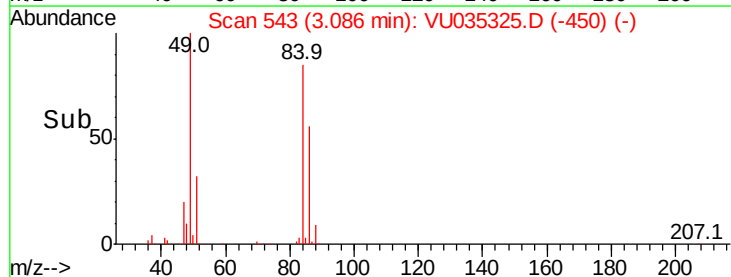
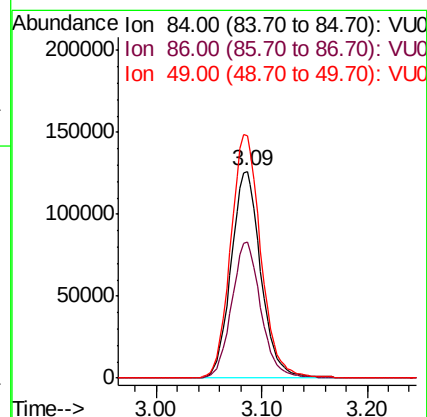
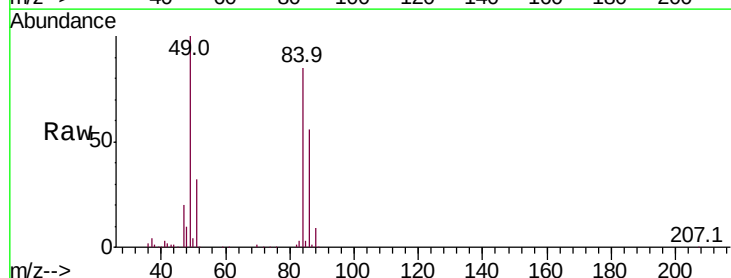
Instrument :
MSVOA_U
ClientSampleId :

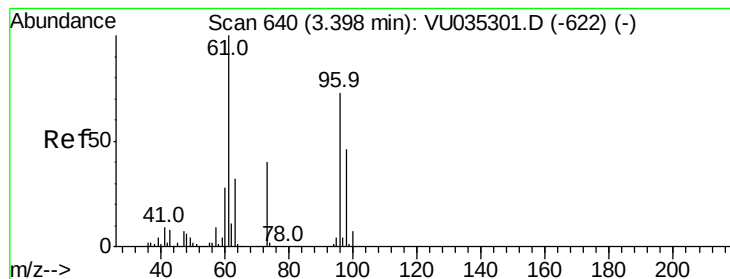
Tot Ion: 43 Resp: 262442
Ion Ratio Lower Upper
43 100
74 24.9 20.3 30.5



#16
Methylene chloride
Concen: 49.380 ug/L
RT: 3.09 min Scan# 543
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Tgt Ion: 84 Resp: 246379
Ion Ratio Lower Upper
84 100
86 65.8 44.4 82.5
49 117.5 84.0 156.0





#17

trans-1,2-Dichloroethene

Concen: 48.608 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

ClientSampleId :

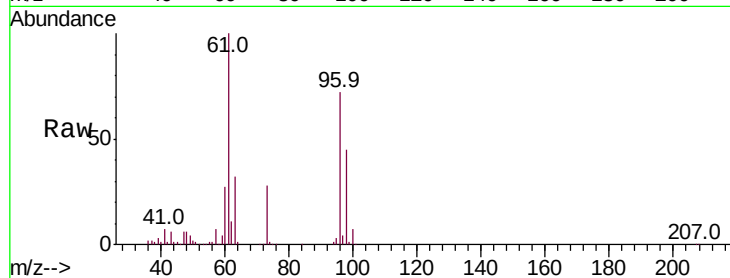
Tot Ion: 96 Resp: 219128

Ion Ratio Lower Upper

96 100

61 139.2 95.8 178.0

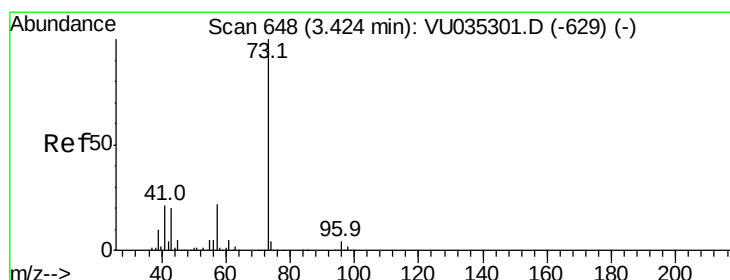
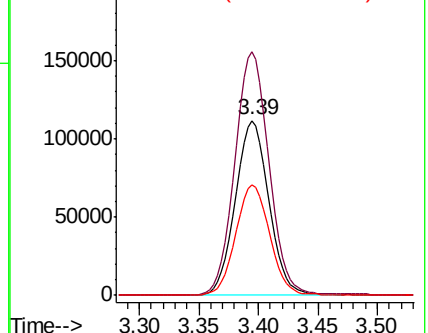
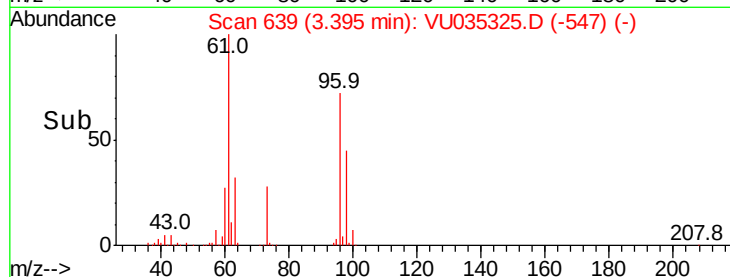
98 63.2 44.4 82.4



Abundance Ion 96.00 (95.70 to 96.70): VU035325.D (-547) (-)

Ion 61.00 (60.70 to 61.70): VU035325.D (-547) (-)

Ion 98.00 (97.70 to 98.70): VU035325.D (-547) (-)



#18

Methyl tert-butyl Ether

Concen: 50.542 ug/L

RT: 3.42 min Scan# 648

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

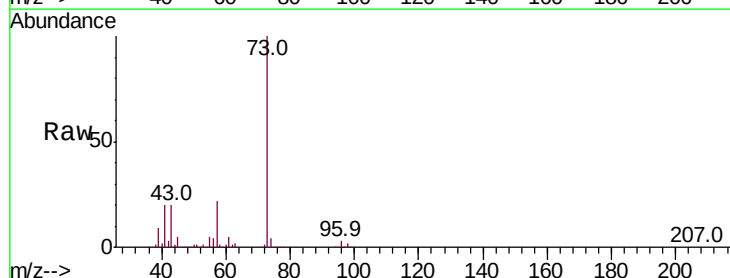
Tgt Ion: 73 Resp: 724625

Ion Ratio Lower Upper

73 100

43 20.0 16.0 24.0

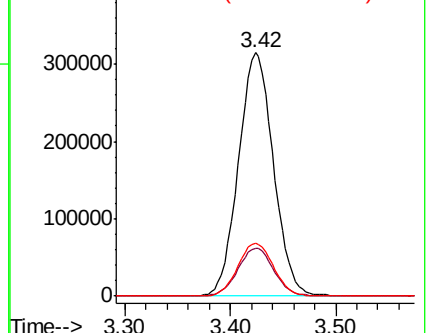
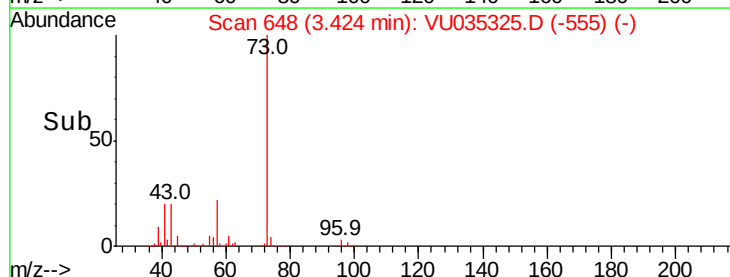
57 22.3 17.6 26.4

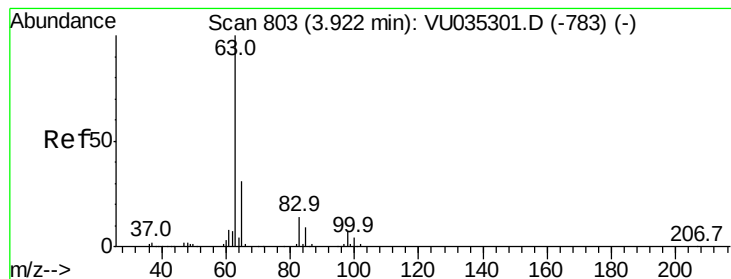


Abundance Ion 73.00 (72.70 to 73.70): VU035325.D (-555) (-)

Ion 43.00 (42.70 to 43.70): VU035325.D (-555) (-)

Ion 57.00 (56.70 to 57.70): VU035325.D (-555) (-)





#19

1,1-Dichloroethane

Concen: 49.687 ug/L

RT: 3.92 min Scan# 803

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

ClientSampleId :

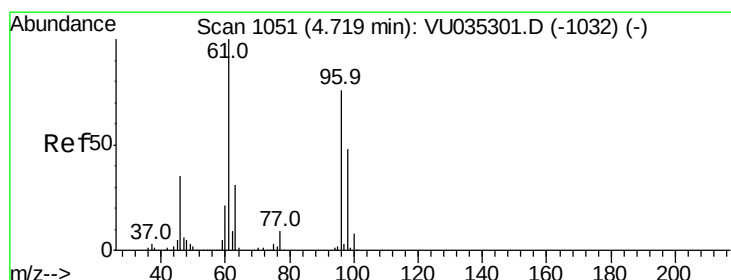
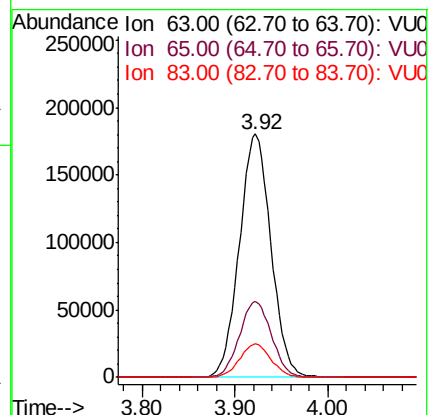
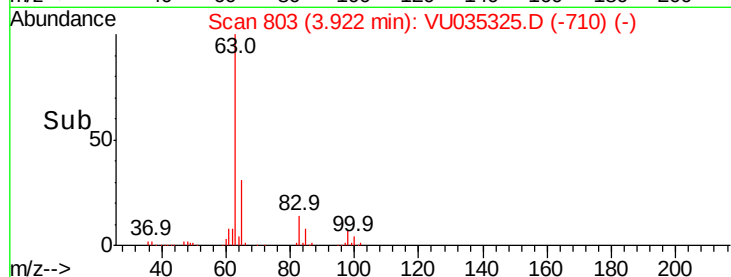
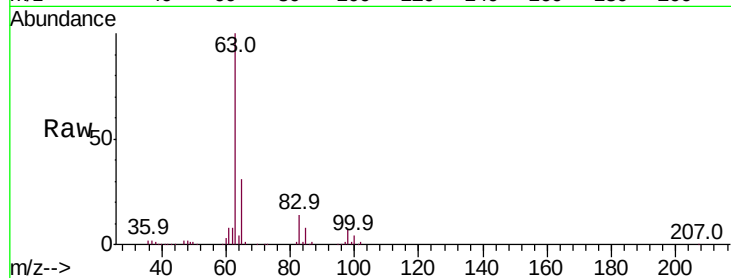
Tot Ion: 63 Resp: 426560

Ion Ratio Lower Upper

63 100

65 31.0 21.6 40.0

83 13.6 9.4 17.6



#20

cis-1,2-Dichloroethene

Concen: 49.802 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

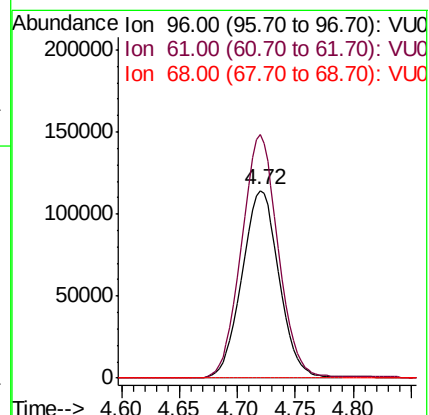
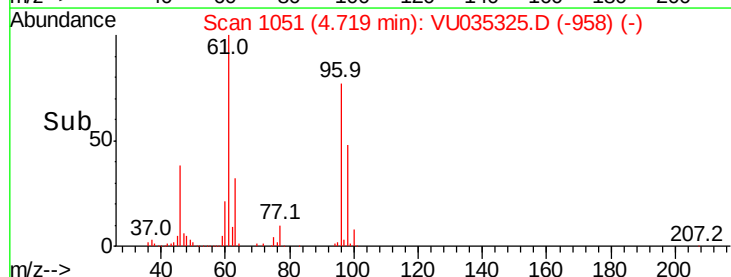
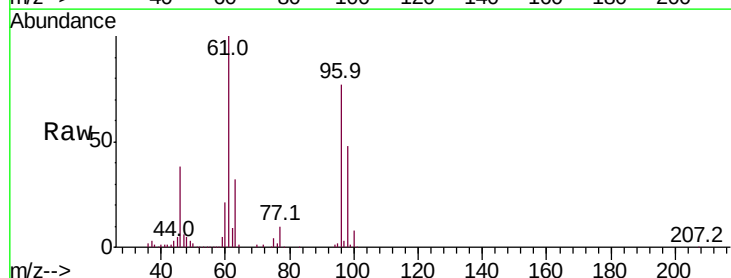
Tgt Ion: 96 Resp: 254792

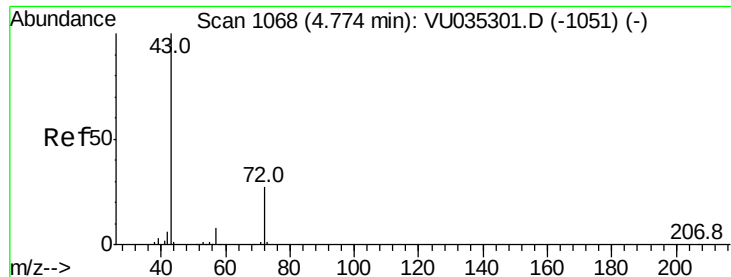
Ion Ratio Lower Upper

96 100

61 129.6 92.7 172.3

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 99.101 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

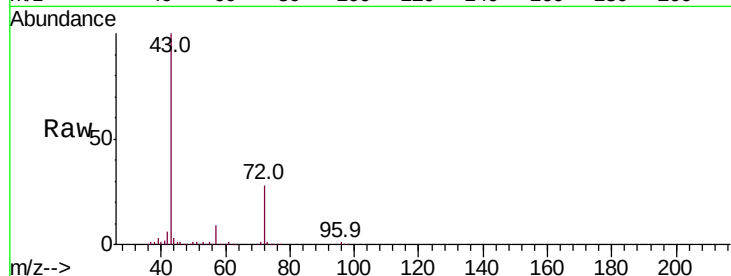
ClientSampleId :

Tot Ion: 43 Resp: 418374

Ion Ratio Lower Upper

43 100

72 27.3 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU035301.D (-1051) (-)

Ion 72.00 (71.70 to 72.70): VU035301.D (-1051) (-)

4.78

200000

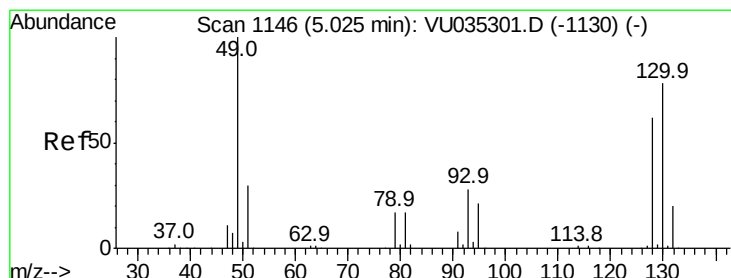
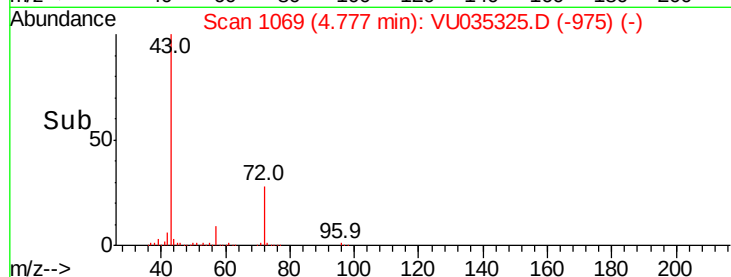
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 48.993 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Tgt Ion:128 Resp: 125716

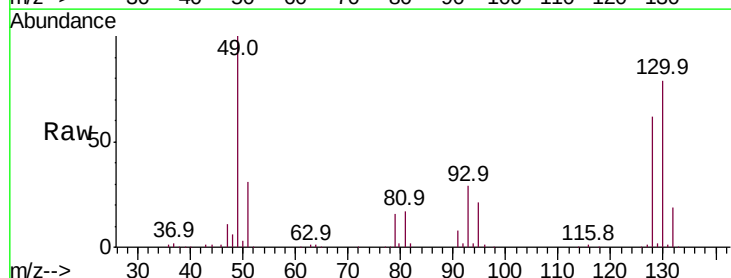
Ion Ratio Lower Upper

128 100

49 160.1 112.7 209.3

130 126.2 87.8 163.0

51 49.9 39.0 58.4



Abundance Ion 128.00 (127.70 to 128.70): VU035301.D (-1130) (-)

Ion 49.00 (48.70 to 49.70): VU035301.D (-1130) (-)

Ion 130.00 (129.70 to 130.70): VU035301.D (-1130) (-)

Ion 51.00 (50.70 to 51.70): VU035301.D (-1130) (-)

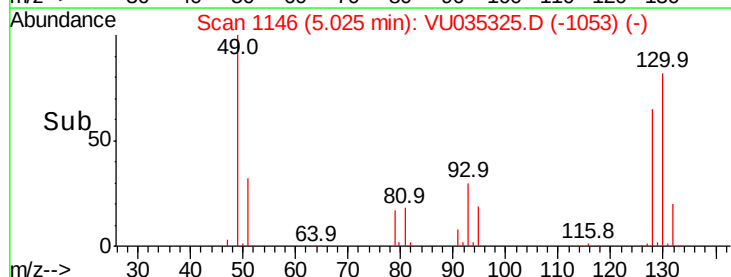
5.02

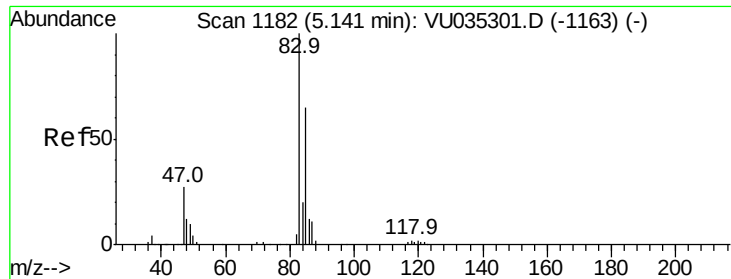
100000

50000

0

Time-->





#25

Chloroform

Concen: 49.415 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

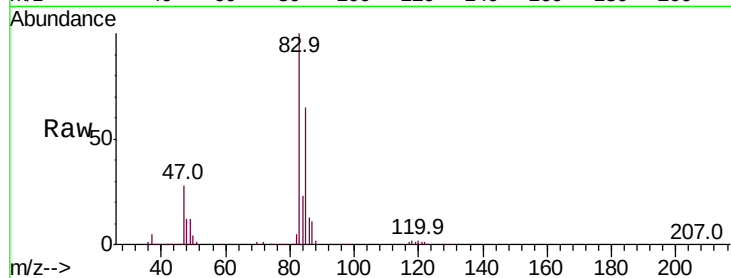
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 437859

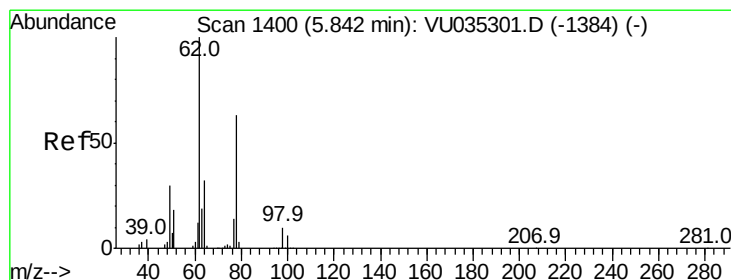
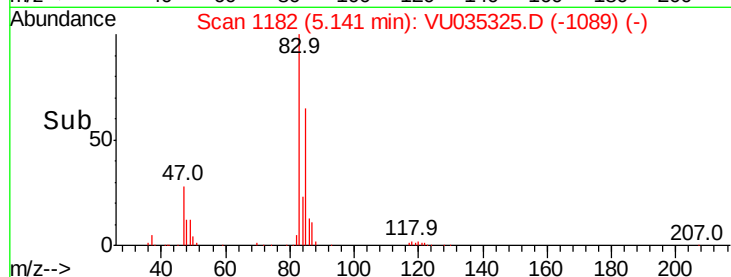
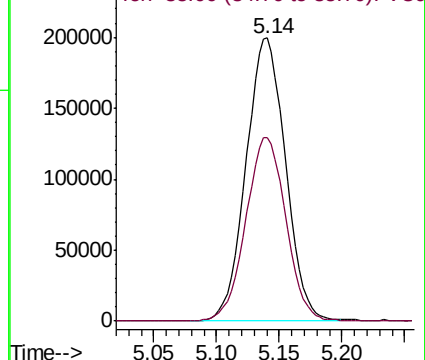
Ion Ratio Lower Upper

83 100

85 65.0 45.5 84.5



Abundance Ion 83.00 (82.70 to 83.70): VU035301.D (-1163) (-)



#27

1,2-Dichloroethane

Concen: 49.649 ug/L

RT: 5.84 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VU035325.D

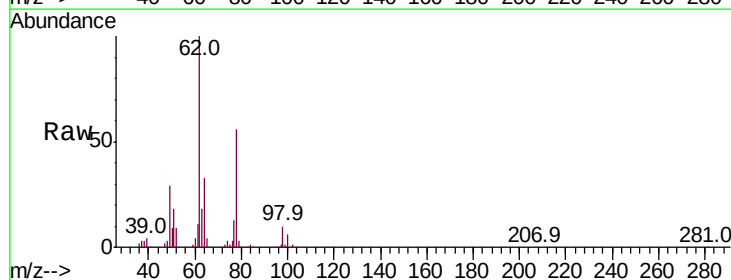
Acq: 21 Oct 2019 15:02

Tgt Ion: 62 Resp: 340857

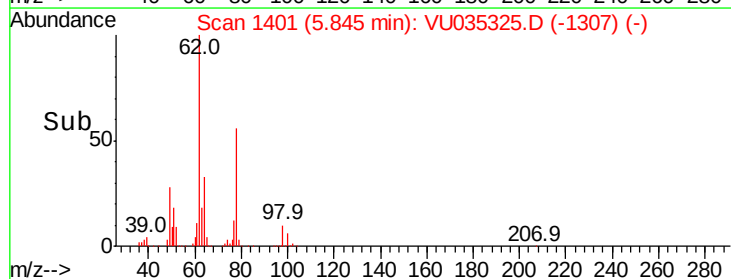
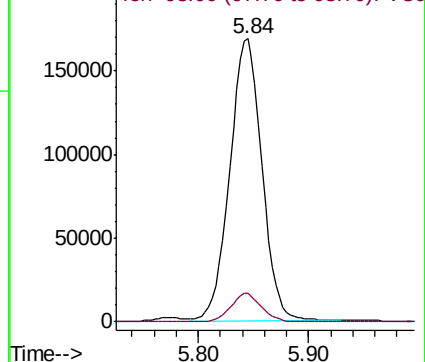
Ion Ratio Lower Upper

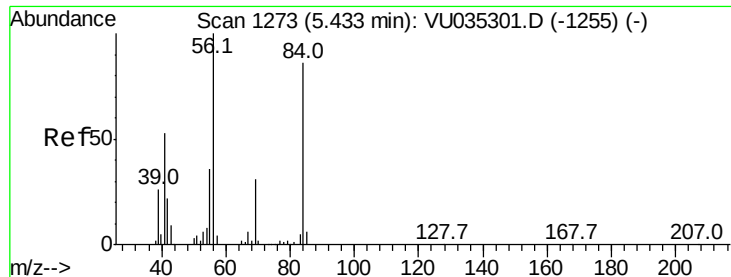
62 100

98 10.0 7.8 11.6



Abundance Ion 62.00 (61.70 to 62.70): VU035301.D (-1384) (-)

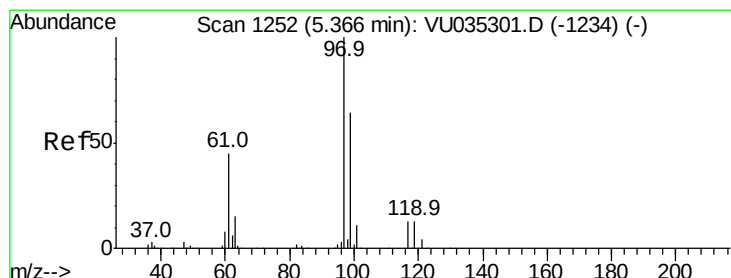
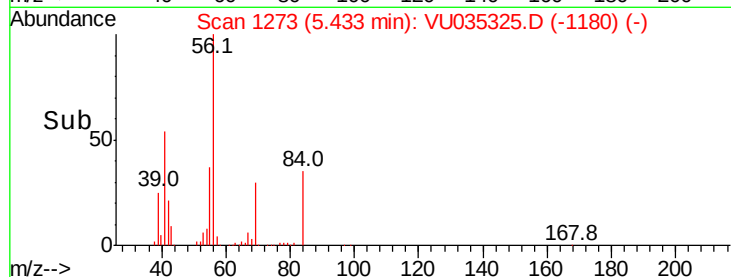
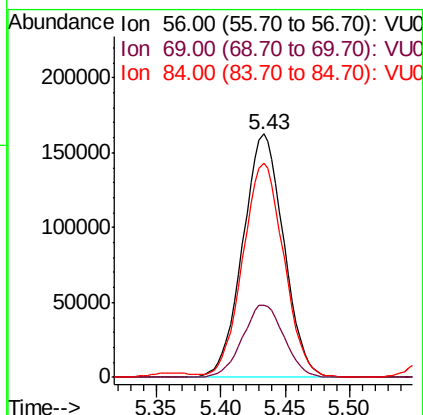
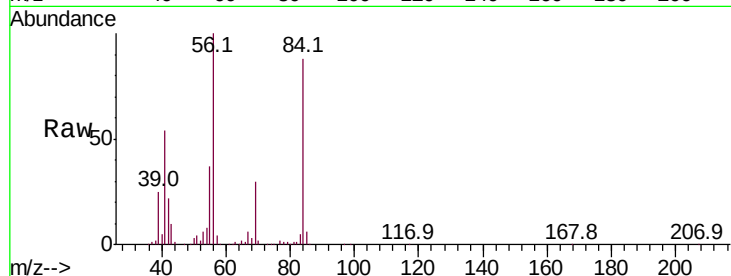




#29
Cyclohexane
Concen: 48.738 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

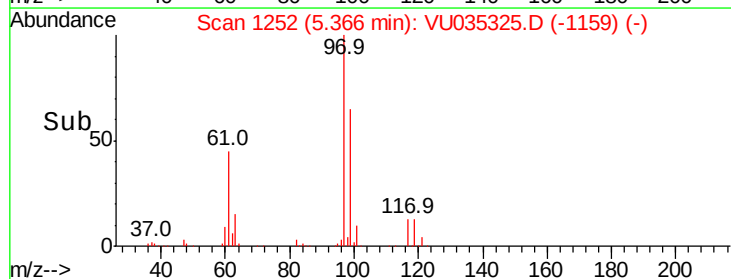
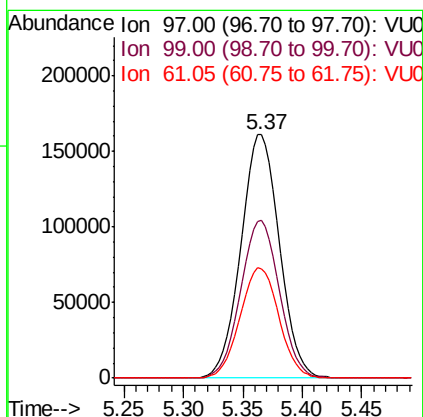
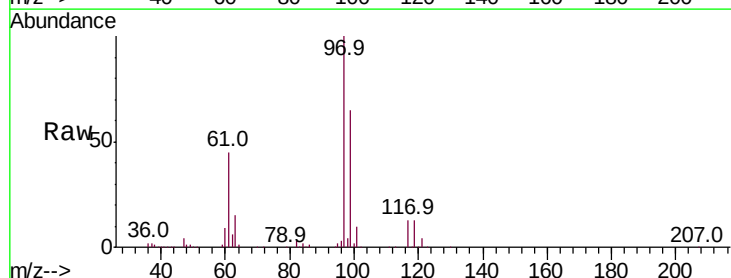
Instrument :
MSVOA_U
ClientSampleId :

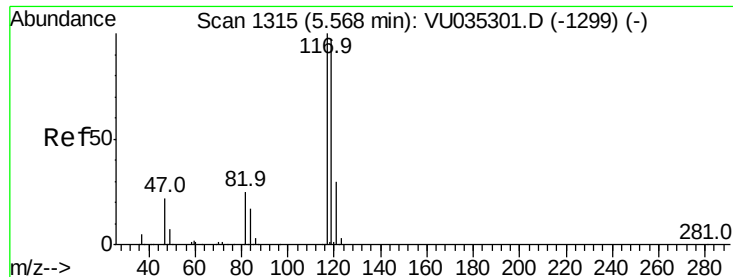
Tot Ion: 56 Resp: 359660
Ion Ratio Lower Upper
56 100
69 30.2 24.2 36.4
84 87.9 71.1 106.7



#30
1,1,1-Trichloroethane
Concen: 50.126 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Tgt Ion: 97 Resp: 362103
Ion Ratio Lower Upper
97 100
99 65.1 51.3 76.9
61 45.7 36.6 54.8





#31

Carbon tetrachloride

Concen: 49.793 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

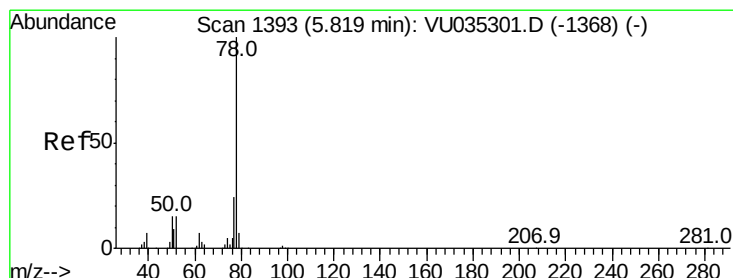
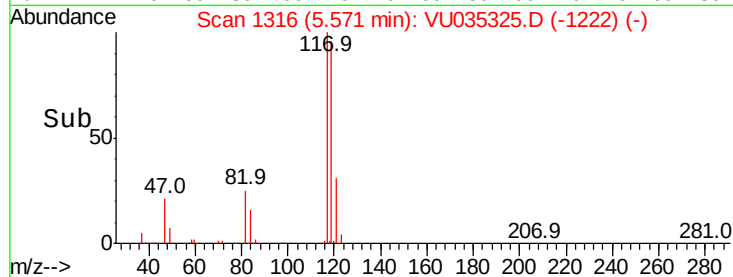
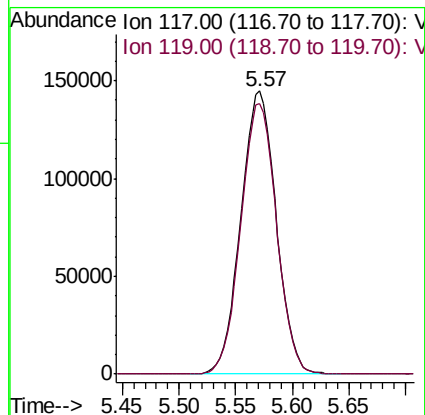
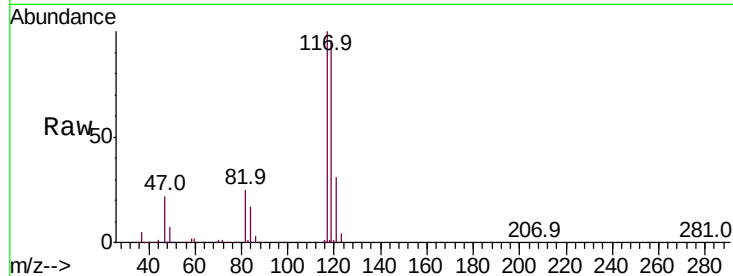
ClientSampleId :

Tot Ion:117 Resp: 314677

Ion Ratio Lower Upper

117 100

119 96.6 77.7 116.5



#33

Benzene

Concen: 51.143 ug/L

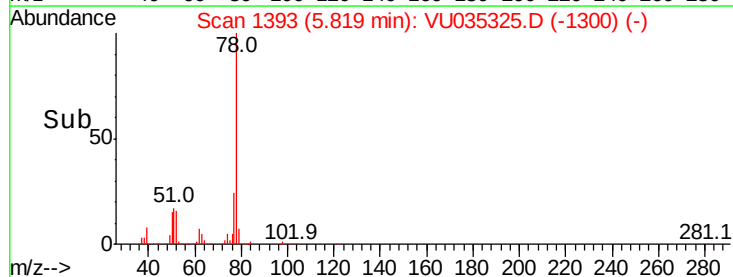
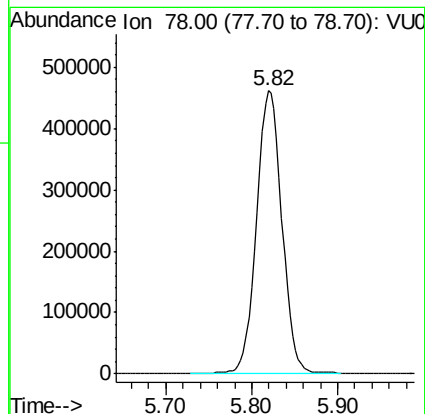
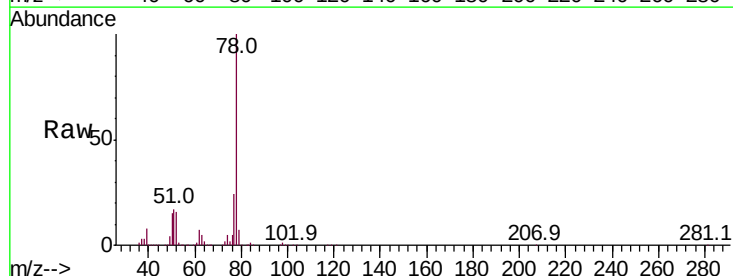
RT: 5.82 min Scan# 1393

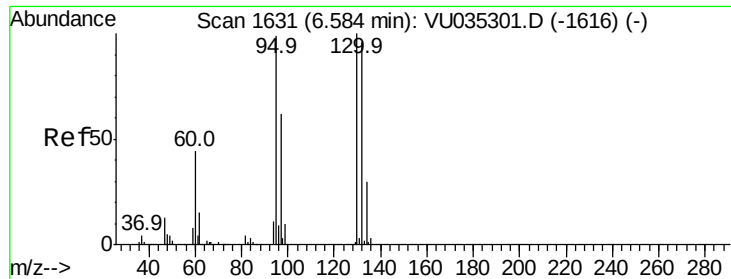
Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Tgt Ion: 78 Resp: 954280

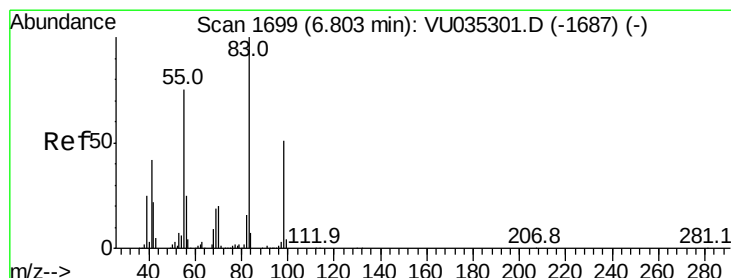
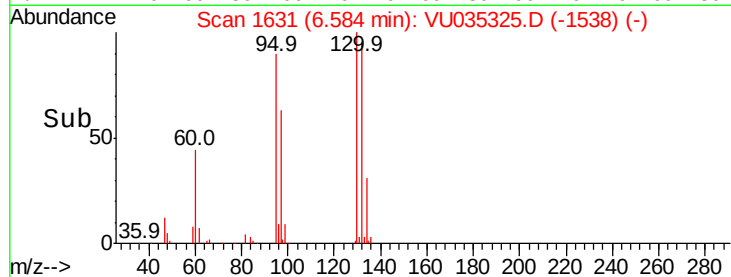
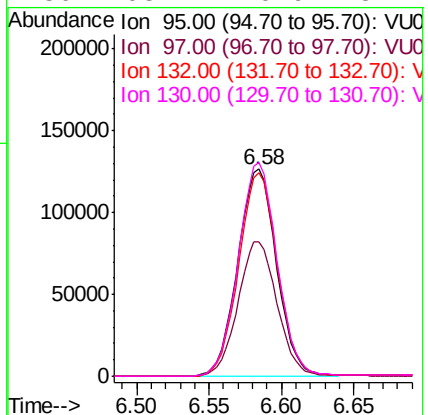
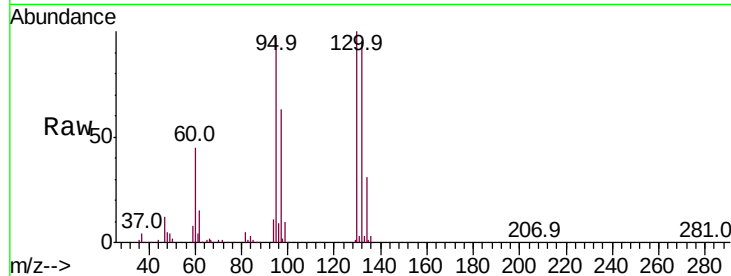




#34
 Trichloroethene
 Concen: 49.062 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

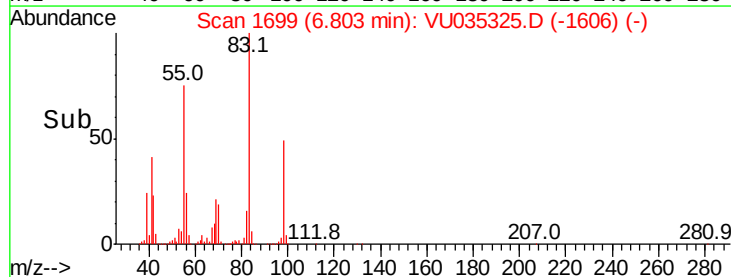
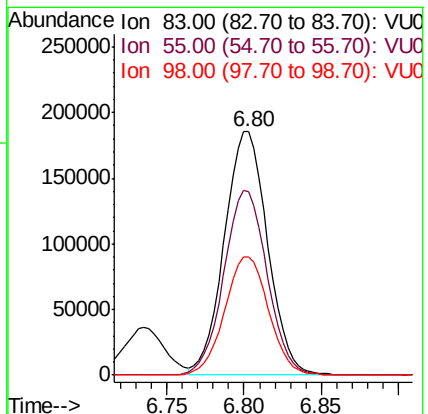
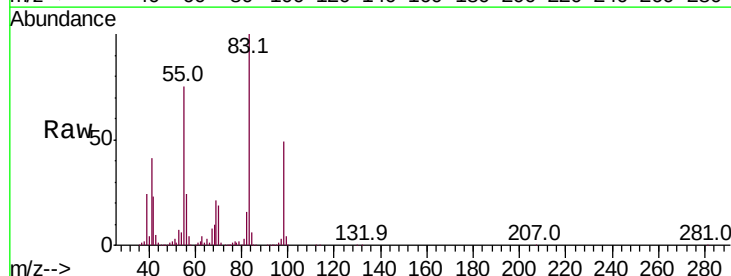
Instrument :
 MSVOA_U
 ClientSampleId :

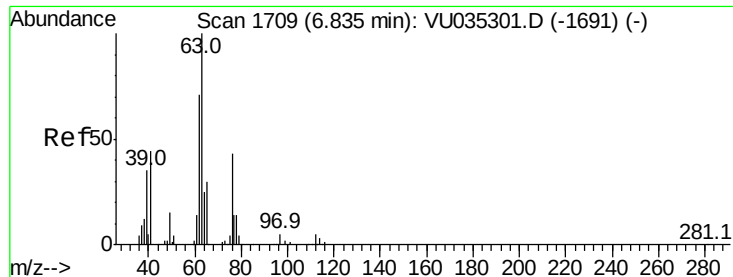
Tot Ion: 95 Resp: 235880
 Ion Ratio Lower Upper
 95 100
 97 65.0 44.2 82.2
 132 98.2 67.8 125.8
 130 103.2 70.9 131.7



#35
 Methylcyclohexane
 Concen: 48.170 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Tgt Ion: 83 Resp: 358067
 Ion Ratio Lower Upper
 83 100
 55 76.1 59.5 89.3
 98 49.6 39.9 59.9





#37

1,2-Dichloropropane

Concen: 51.276 ug/L

RT: 6.84 min Scan# 1709

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

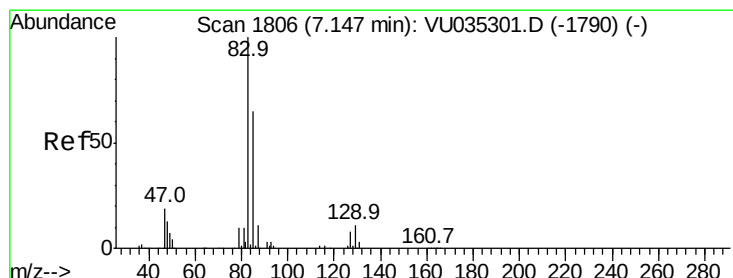
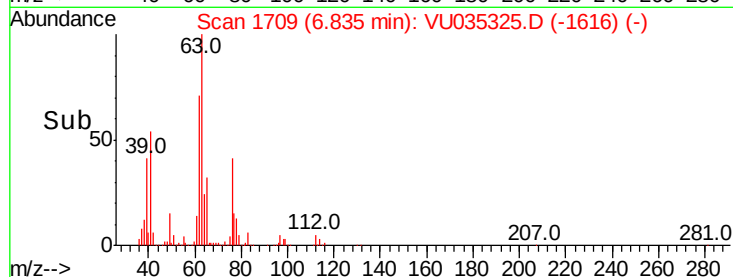
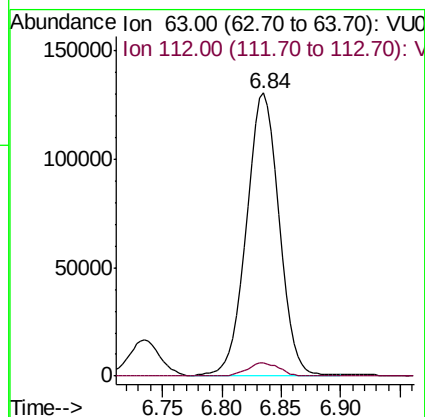
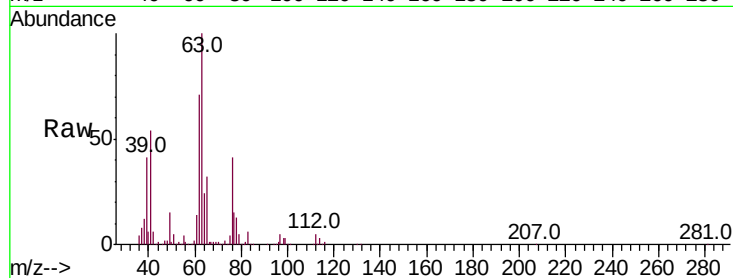
ClientSampled :

Tot Ion: 63 Resp: 247760

Ion Ratio Lower Upper

63 100

112 4.6 3.6 5.4



#38

Bromodichloromethane

Concen: 50.594 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

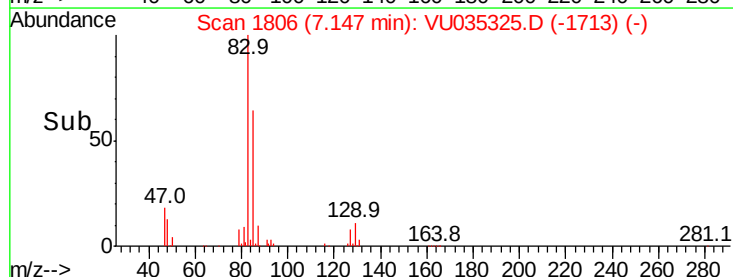
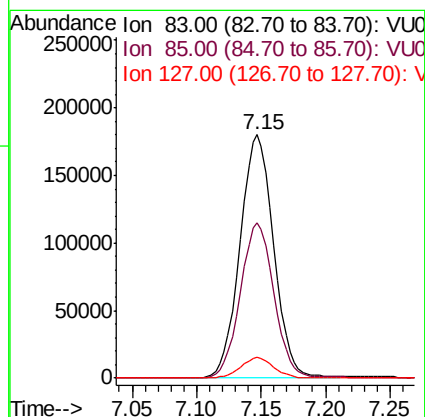
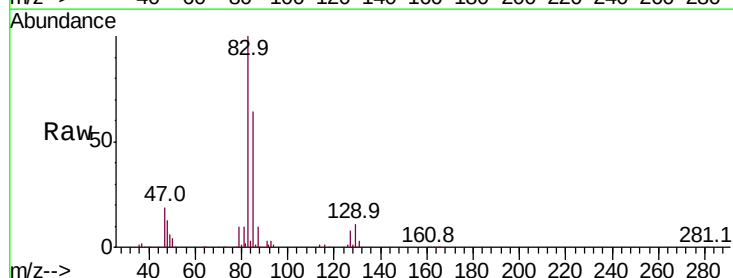
Tgt Ion: 83 Resp: 327048

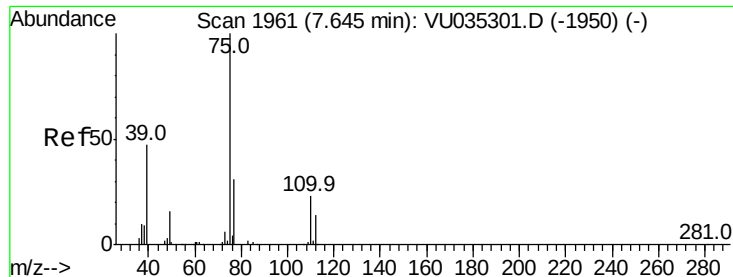
Ion Ratio Lower Upper

83 100

85 63.7 45.3 84.1

127 8.3 6.6 10.0



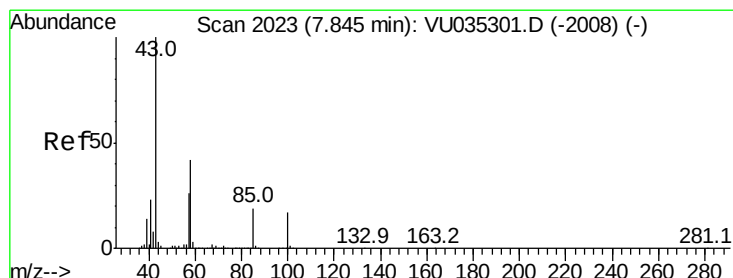
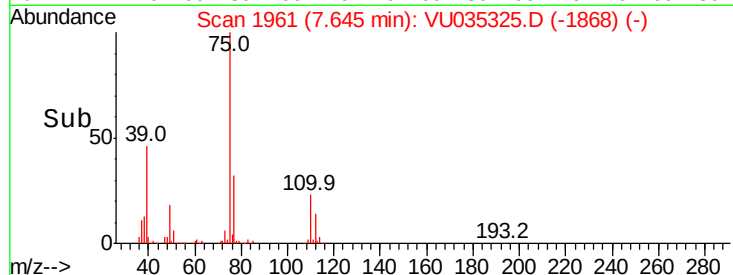
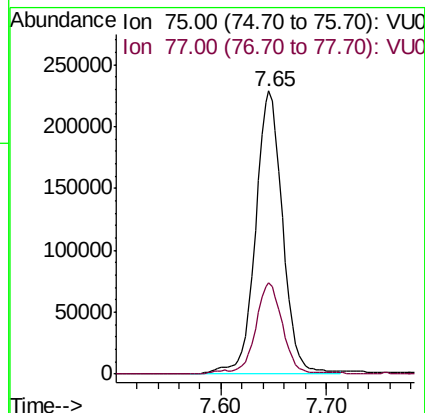
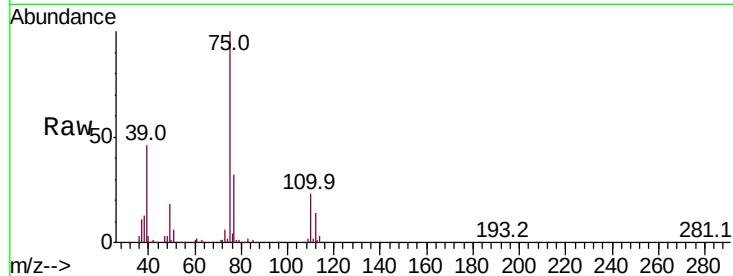


#39

cis-1,3-Dichloropropene
Concen: 52.663 ug/L
RT: 7.65 min Scan# 1961
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Instrument :
MSVOA_U
ClientSampled :

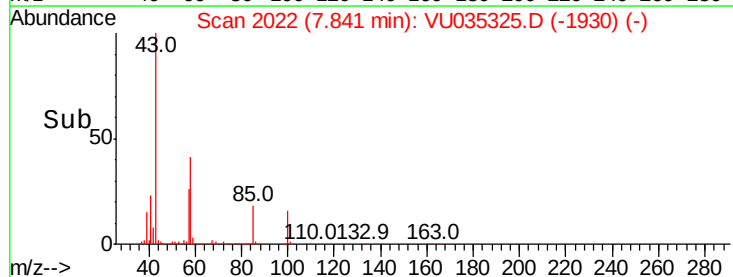
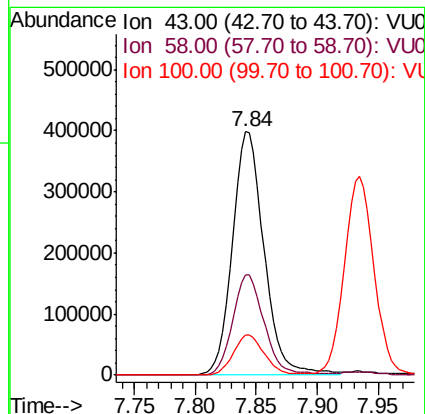
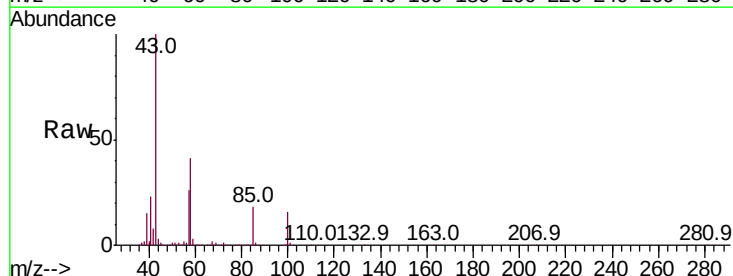
Tot Ion: 75 Resp: 411202
Ion Ratio Lower Upper
75 100
77 32.4 22.3 41.5

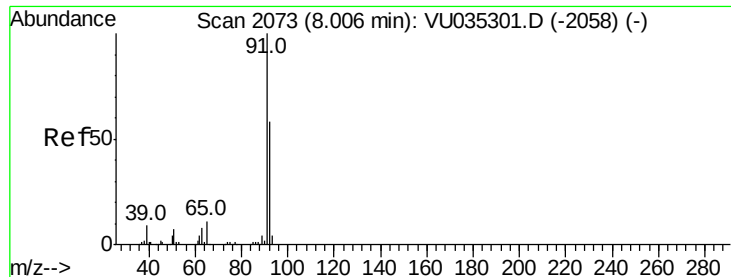


#40

4-Methyl-2-pentanone
Concen: 100.883 ug/L
RT: 7.84 min Scan# 2022
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Tgt Ion: 43 Resp: 720169
Ion Ratio Lower Upper
43 100
58 40.9 33.1 49.7
100 16.2 13.2 19.8





#42

Toluene

Concen: 50.195 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

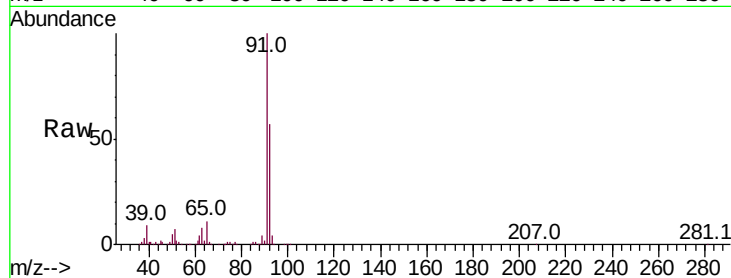
ClientSampleId :

Tot Ion: 91 Resp: 1025217

Ion Ratio Lower Upper

91 100

92 57.2 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VU035301.D (-2058) (-)

Ion 92.00 (91.70 to 92.70): VU035301.D (-2058) (-)

8.01

600000

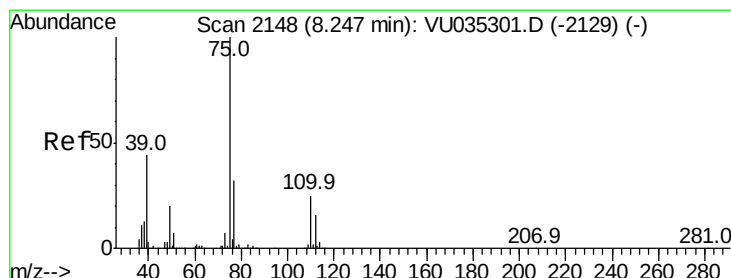
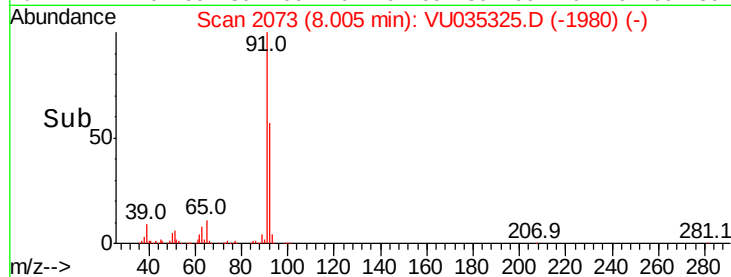
400000

200000

0

7.90 8.00 8.10

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.702 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VU035325.D

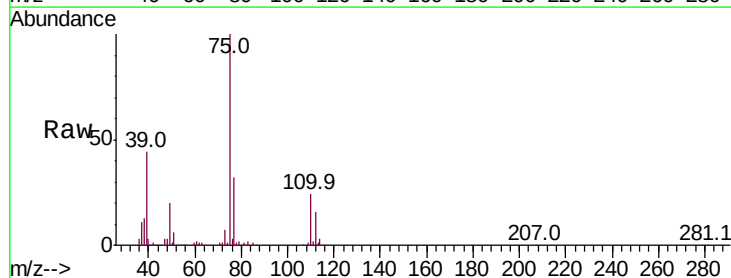
Acq: 21 Oct 2019 15:02

Tgt Ion: 75 Resp: 369930

Ion Ratio Lower Upper

75 100

77 31.7 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU035301.D (-2129) (-)

Ion 77.00 (76.70 to 77.70): VU035301.D (-2129) (-)

250000

200000

150000

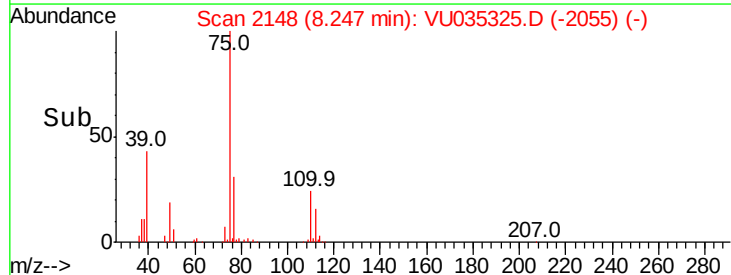
100000

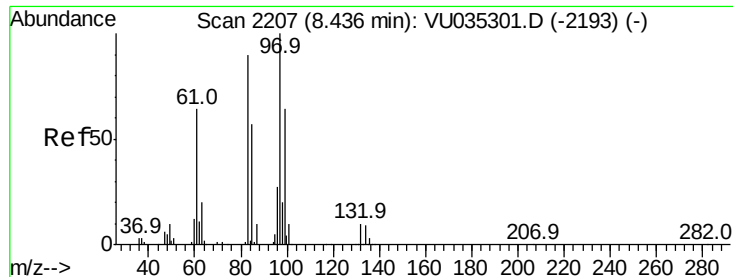
50000

0

8.20 8.30

Time-->

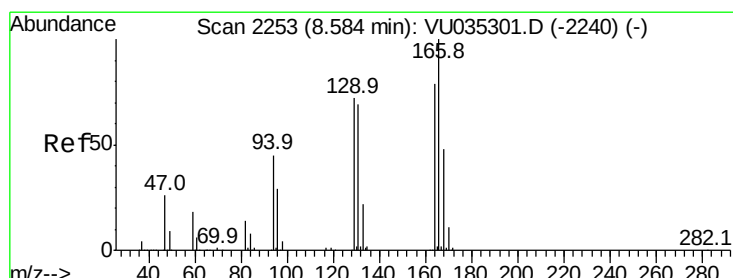
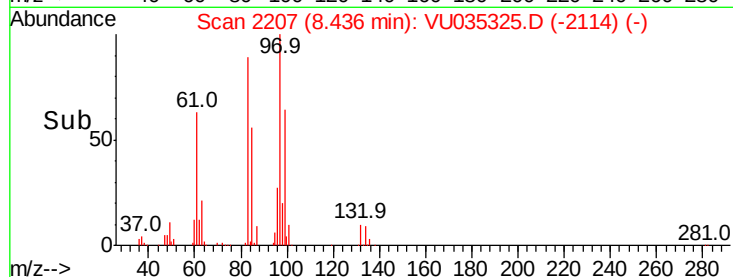
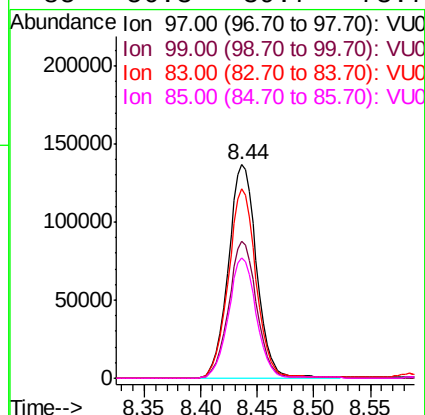
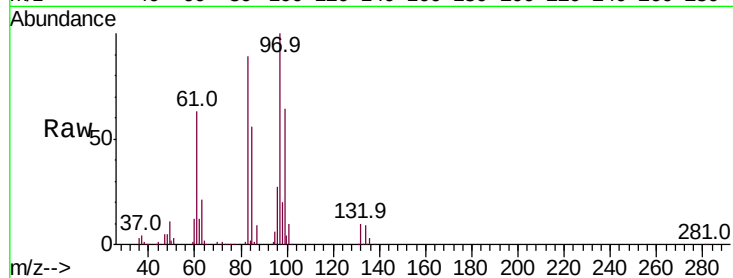




#45
 1,1,2-Trichloroethane
 Concen: 49.992 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

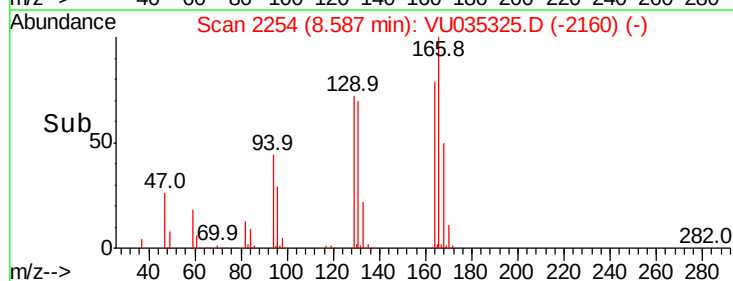
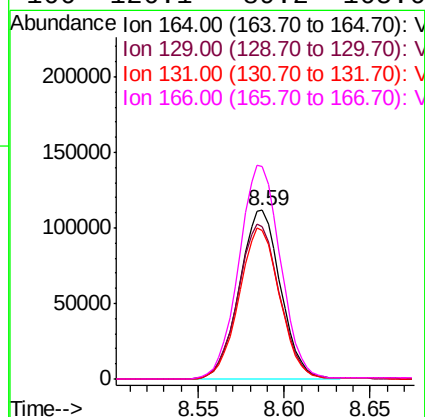
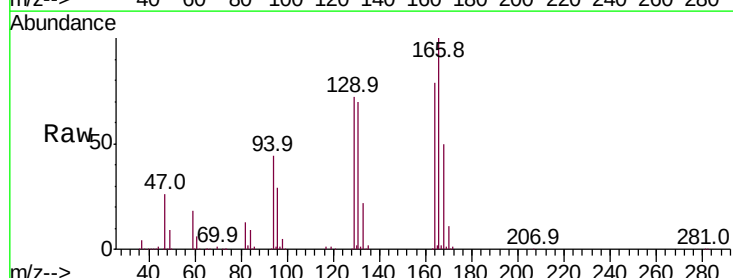
Instrument :
 MSVOA_U
 ClientSampleId :

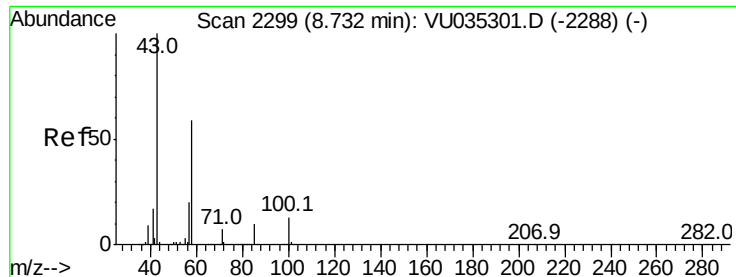
Tot Ion:	97	Resp:	238100
Ion	Ratio	Lower	Upper
97	100		
99	64.2	44.5	82.7
83	88.9	63.0	117.0
85	56.3	39.7	73.7



#46
 Tetrachloroethene
 Concen: 48.058 ug/L
 RT: 8.59 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Tgt Ion:	164	Resp:	186655
Ion	Ratio	Lower	Upper
164	100		
129	90.4	64.0	119.0
131	88.2	61.8	114.8
166	126.1	89.2	165.6

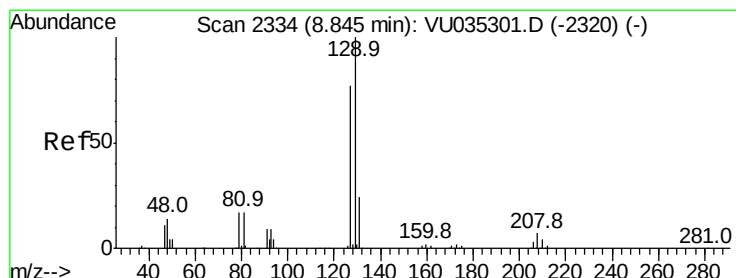
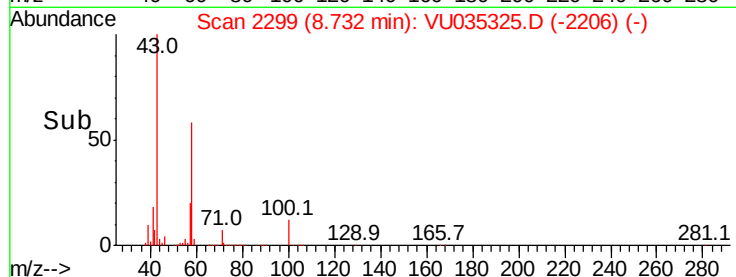
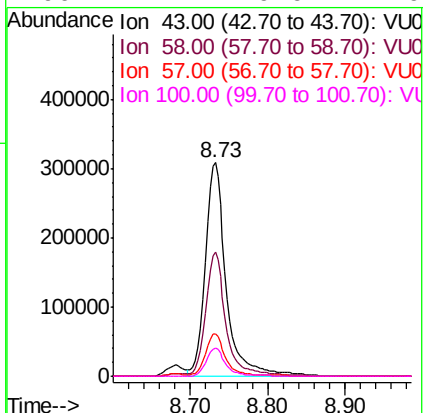
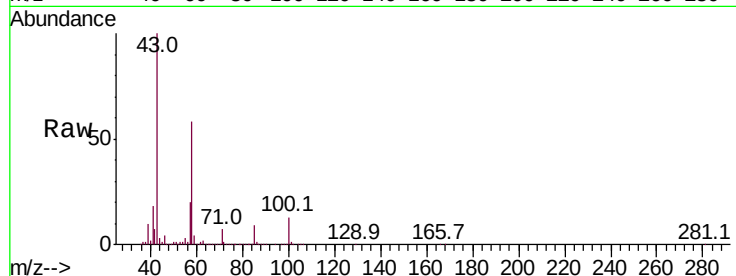




#48
2-Hexanone
Concen: 96.302 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

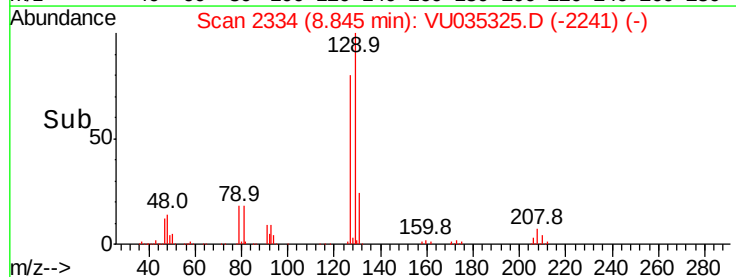
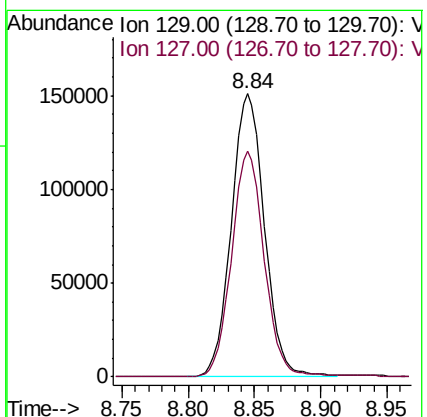
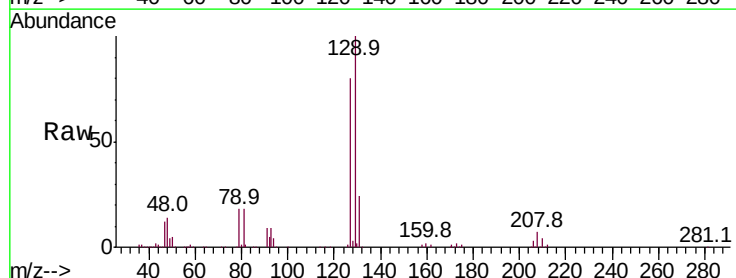
Instrument :
MSVOA_U
ClientSampleId :

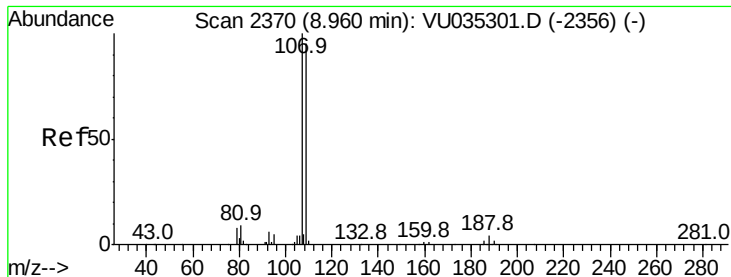
Tot Ion	Ratio	Lower	Upper
43	100		
58	53.8	42.7	64.1
57	18.3	14.8	22.2
100	12.1	9.9	14.9



#49
Dibromochloromethane
Concen: 49.437 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.7	54.0	100.4





#50

1,2-Dibromoethane

Concen: 49.049 ug/L

RT: 8.96 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

ClientSampleId :

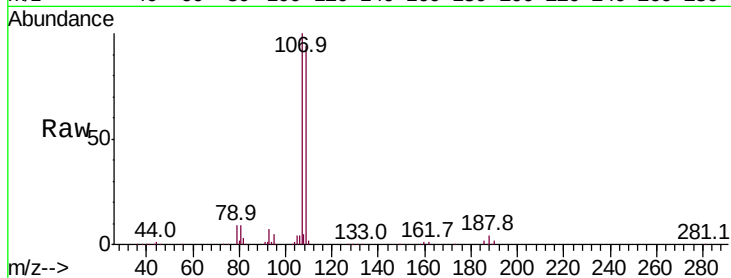
Tot Ion:107 Resp: 258440

Ion Ratio Lower Upper

107 100

109 94.0 66.8 124.2

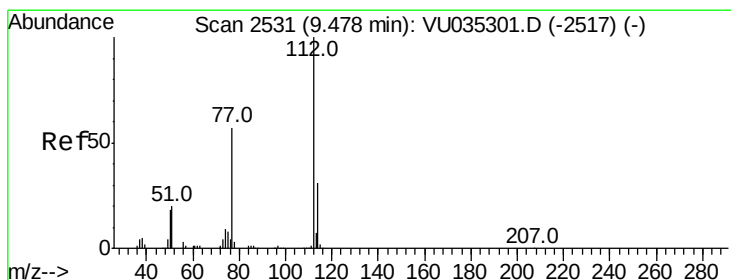
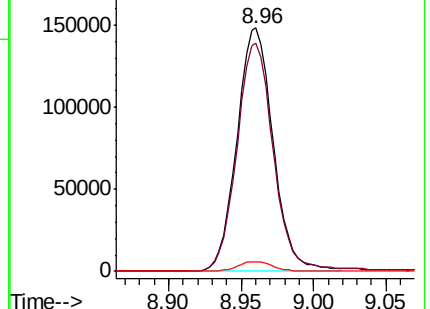
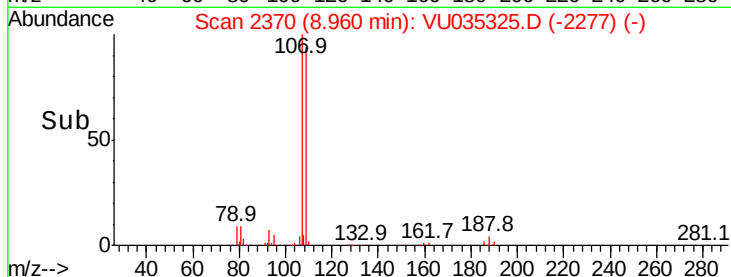
188 4.0 3.4 5.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 48.355 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

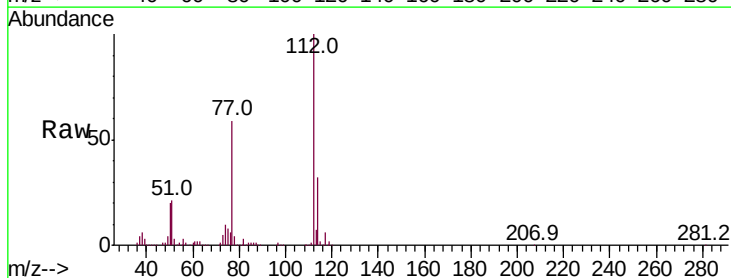
Tgt Ion:112 Resp: 644133

Ion Ratio Lower Upper

112 100

114 32.1 21.9 40.7

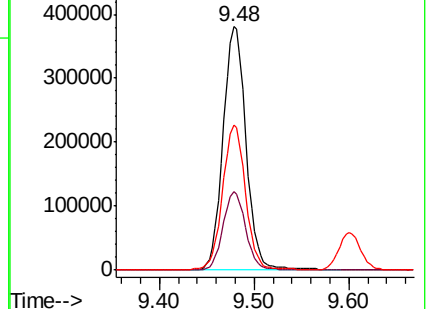
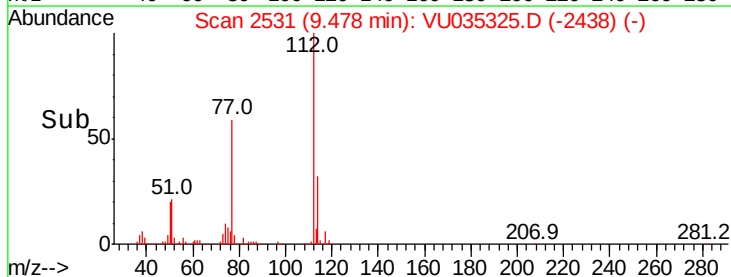
77 59.5 46.2 69.2

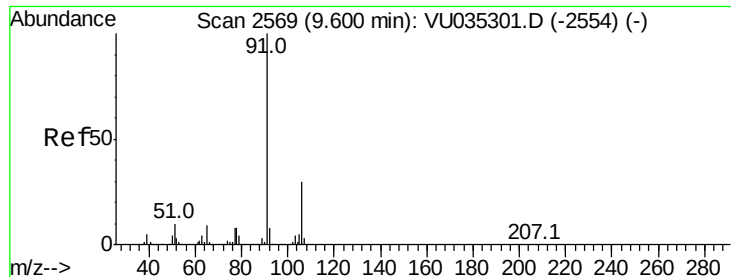


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 48.829 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

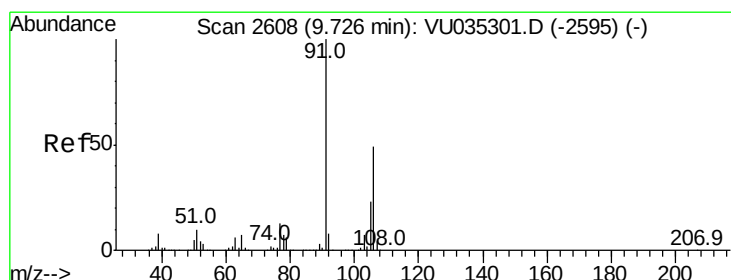
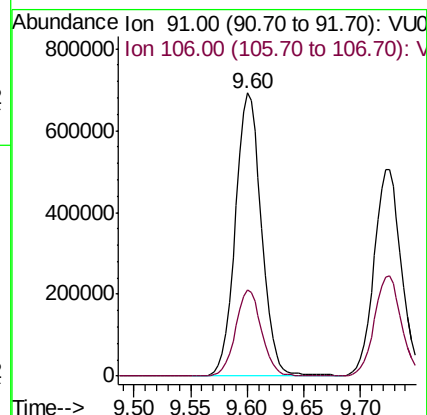
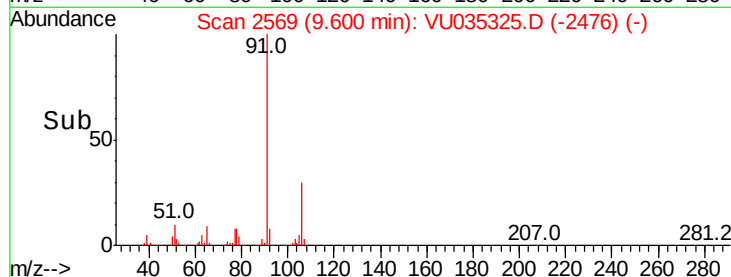
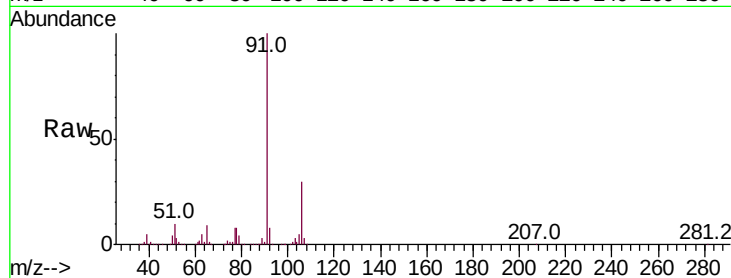
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1111598

Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.6



#53

m,p-Xylene

Concen: 48.993 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VU035325.D

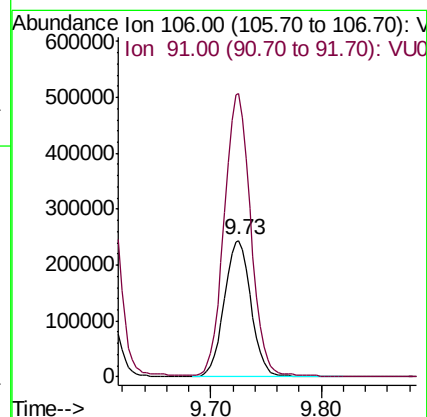
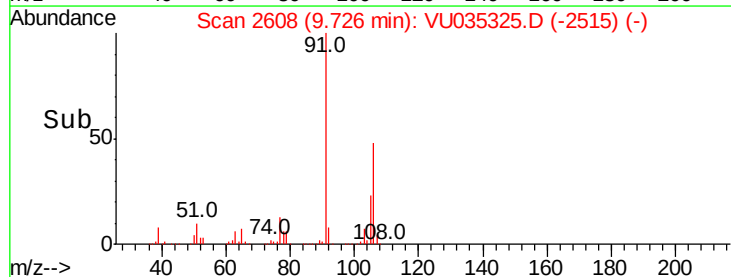
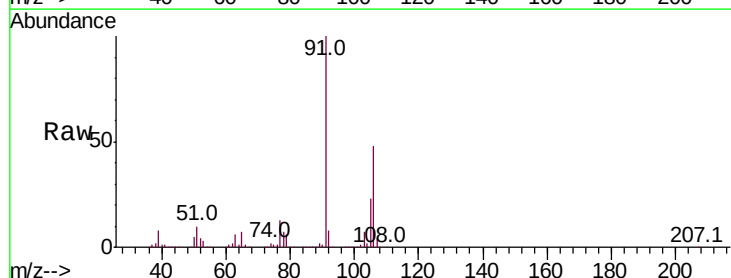
Acq: 21 Oct 2019 15:02

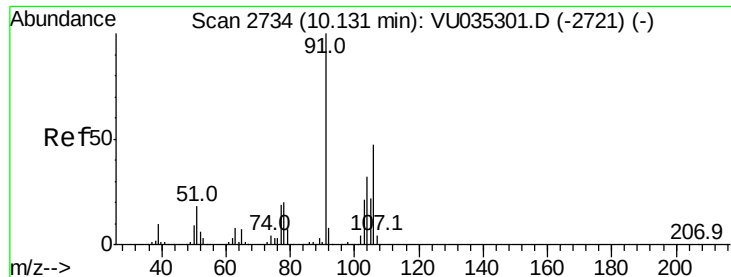
Tgt Ion: 106 Resp: 411133

Ion Ratio Lower Upper

106 100

91 207.4 141.5 262.9





#54

o-xylene

Concen: 49.116 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

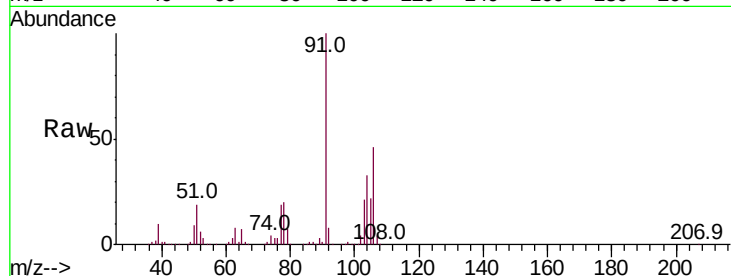
ClientSampled :

Tot Ion:106 Resp: 408826

Ion Ratio Lower Upper

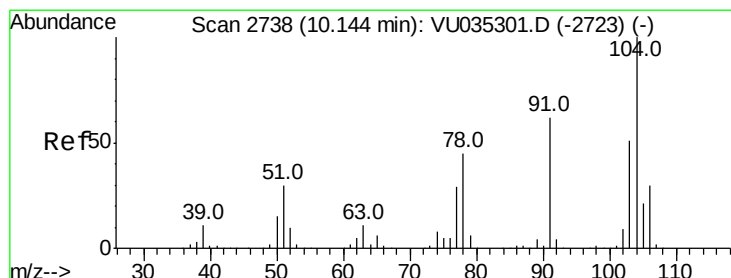
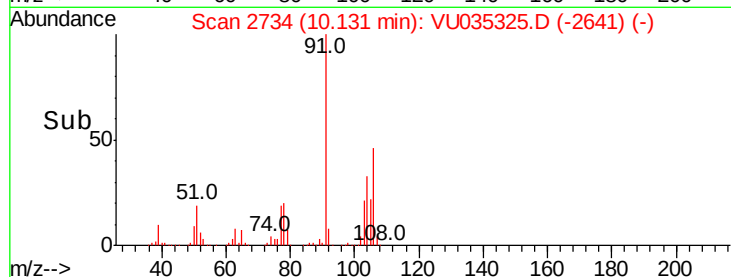
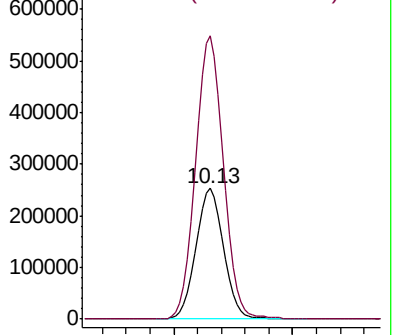
106 100

91 216.4 150.6 279.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.847 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035325.D

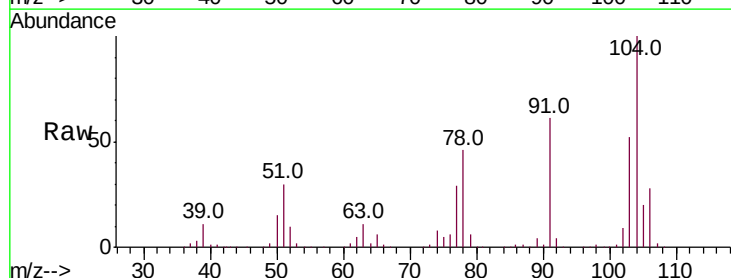
Acq: 21 Oct 2019 15:02

Tgt Ion:104 Resp: 689256

Ion Ratio Lower Upper

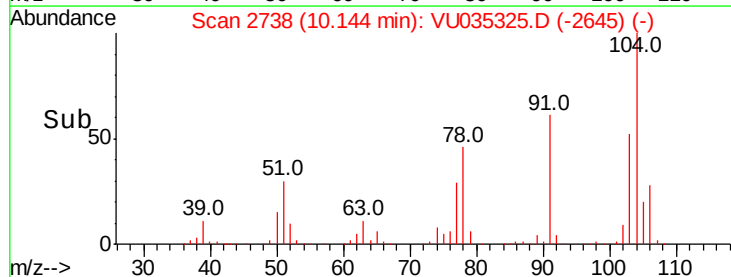
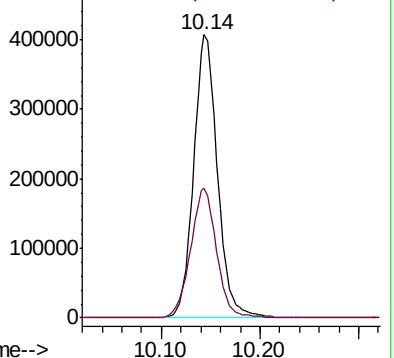
104 100

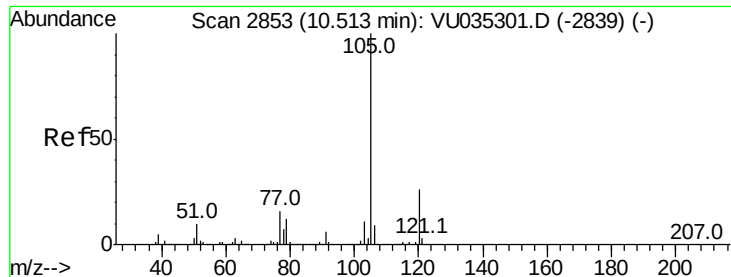
78 45.8 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.935 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

ClientSampleId :

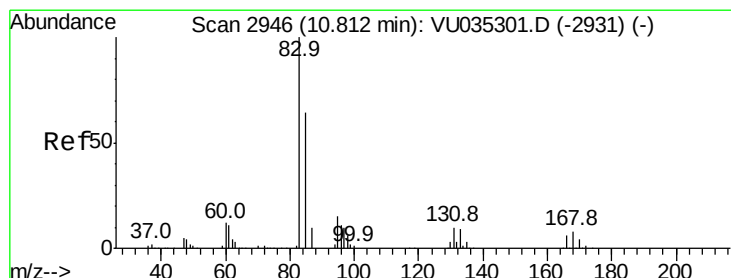
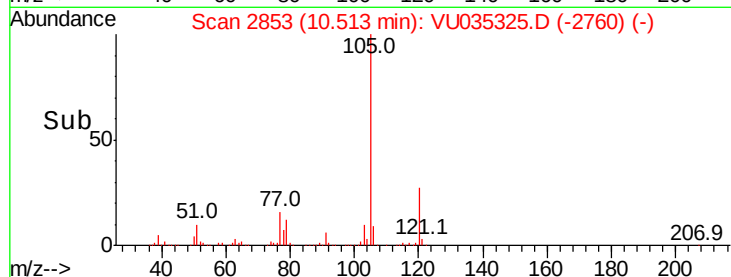
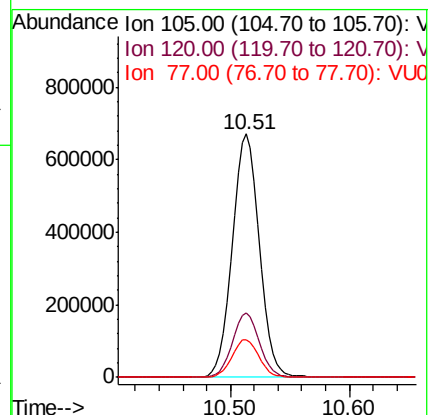
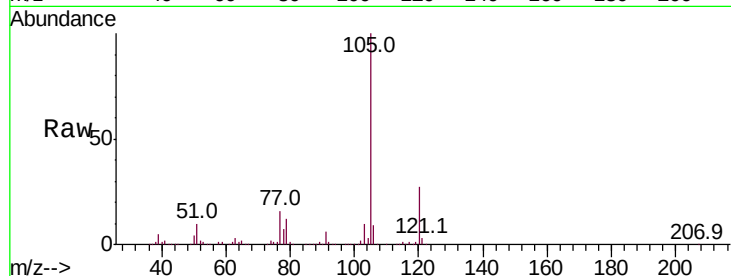
Tot Ion:105 Resp: 1054546

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

77 15.6 12.7 19.1



#58

1,1,2,2-Tetrachloroethane

Concen: 49.007 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

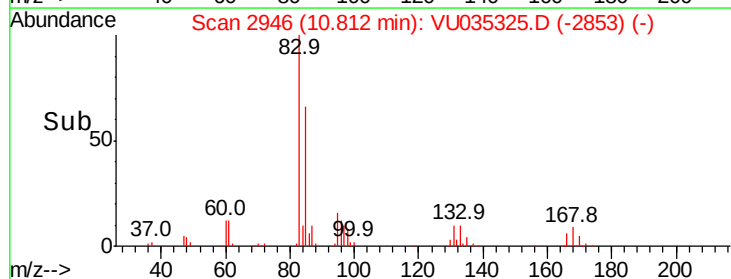
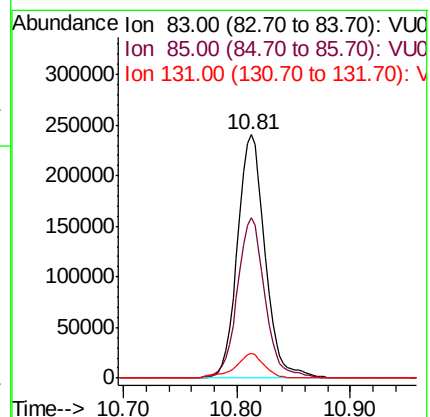
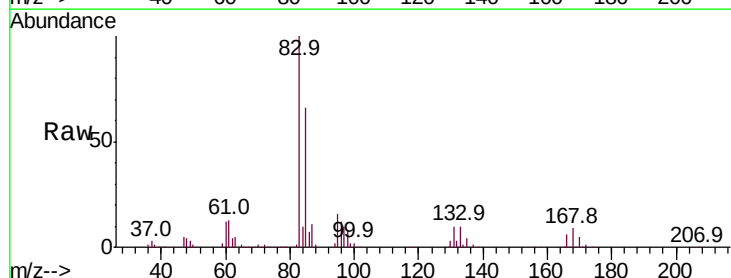
Tgt Ion: 83 Resp: 408018

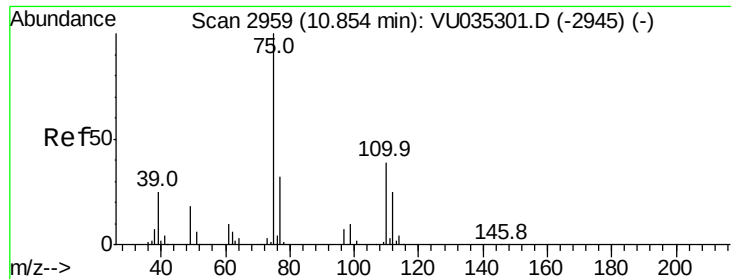
Ion Ratio Lower Upper

83 100

85 65.8 44.9 83.5

131 10.1 7.8 11.6





#59

1,2,3-Trichloropropane

Concen: 49.220 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

Instrument :

MSVOA_U

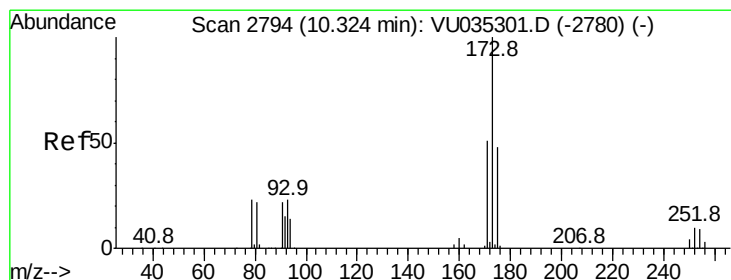
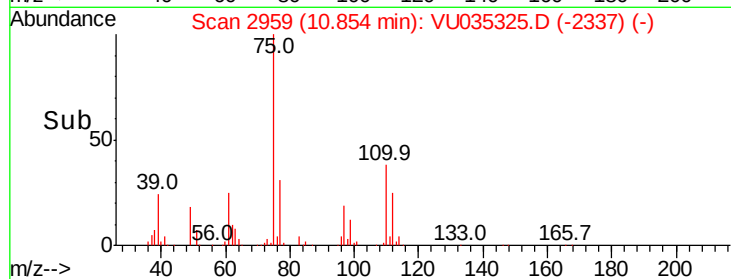
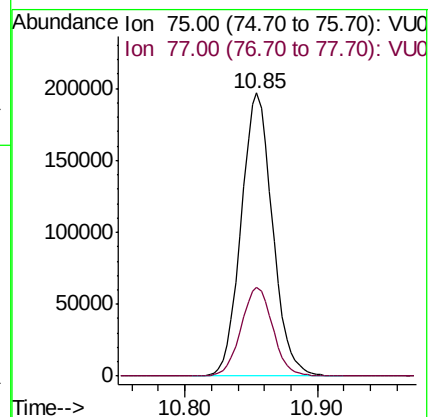
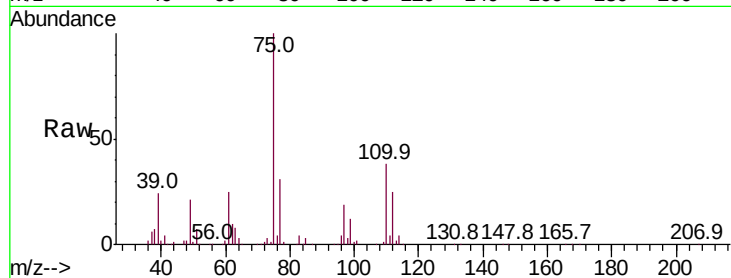
ClientSampleId :

Tot Ion: 75 Resp: 323852

Ion Ratio Lower Upper

75 100

77 31.9 26.2 39.2



#61

Bromoform

Concen: 47.310 ug/L

RT: 10.32 min Scan# 2794

Delta R.T. -0.00 min

Lab File: VU035325.D

Acq: 21 Oct 2019 15:02

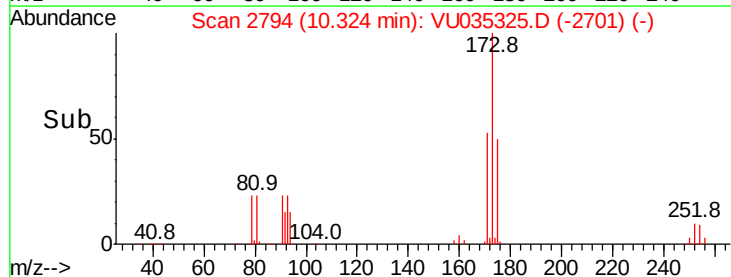
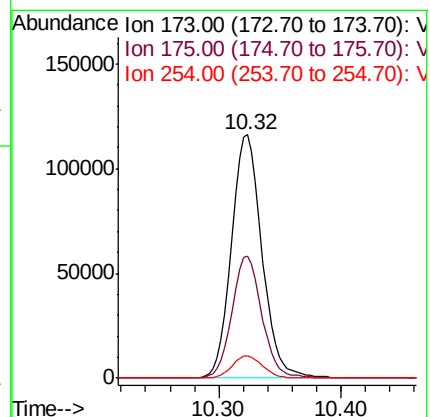
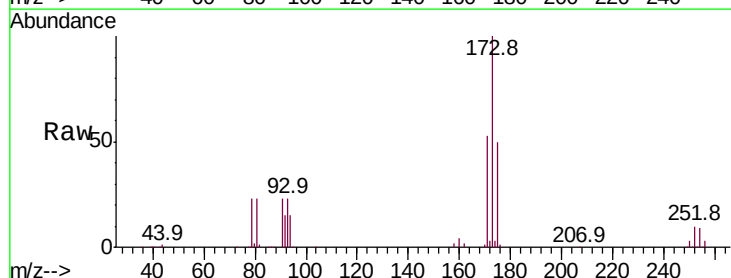
Tgt Ion: 173 Resp: 203524

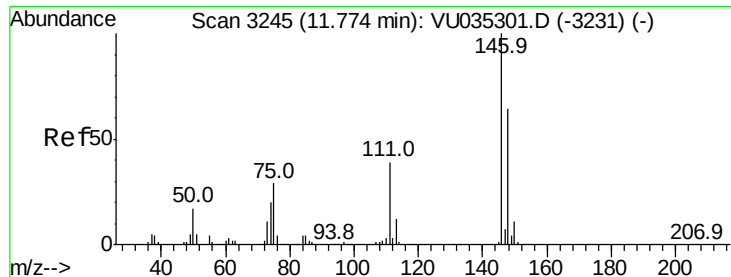
Ion Ratio Lower Upper

173 100

175 49.2 38.9 58.3

254 9.1 7.6 11.4

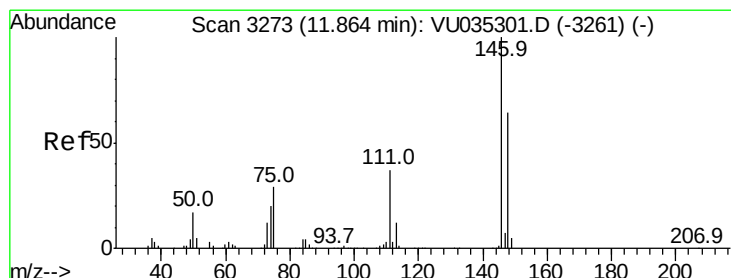
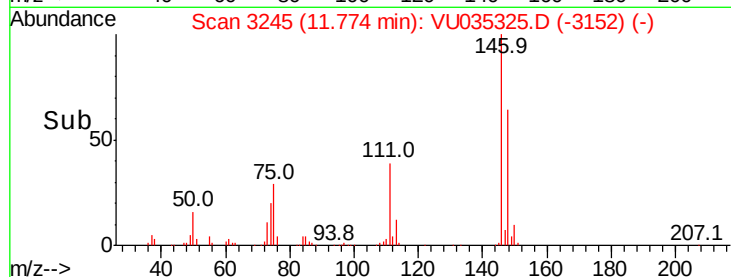
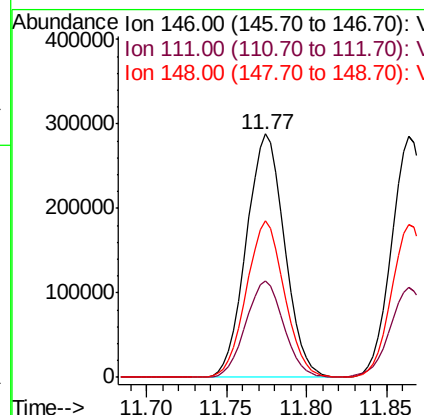
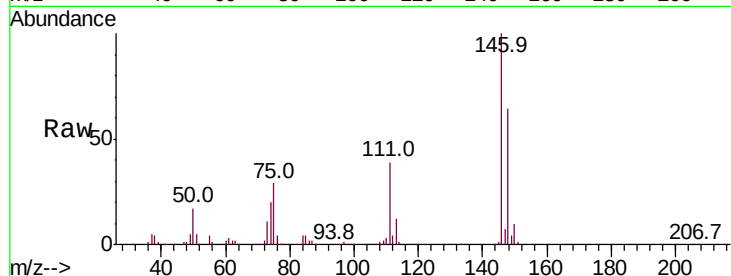




#62
 1,3-Dichlorobenzene
 Concen: 48.247 ug/L
 RT: 11.77 min Scan# 3245
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

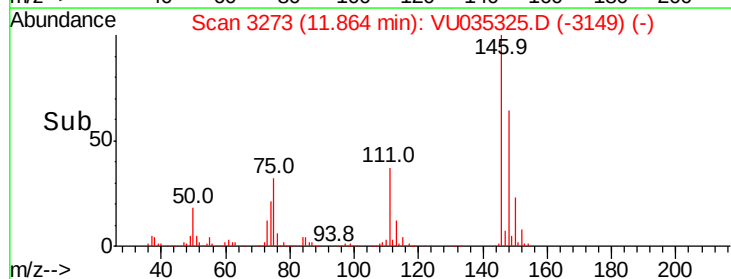
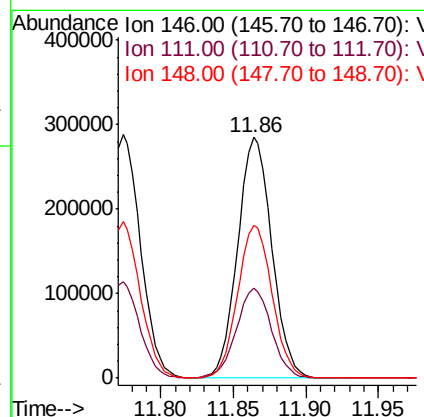
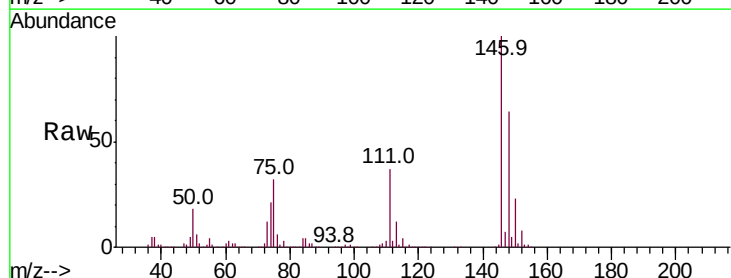
Instrument :
 MSVOA_U
 ClientSampleId :

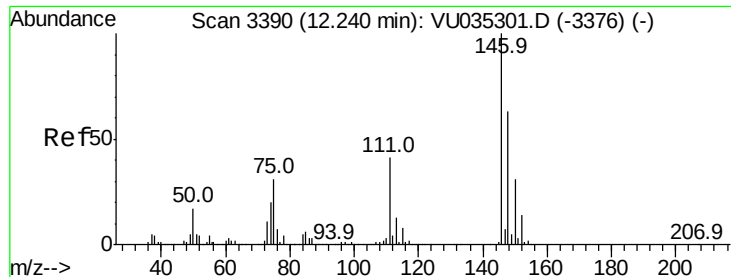
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	27.3	50.7
148	64.1	44.8	83.2



#63
 1,4-Dichlorobenzene
 Concen: 47.746 ug/L
 RT: 11.86 min Scan# 3273
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	26.2	48.8
148	63.7	44.5	82.7

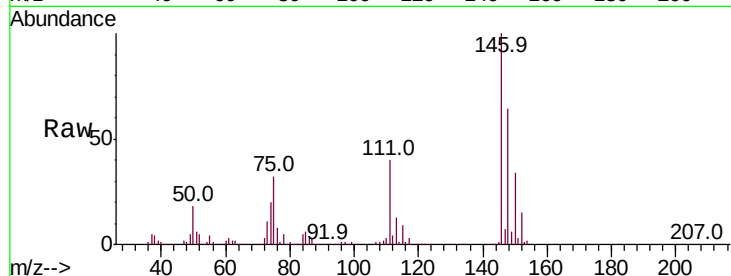




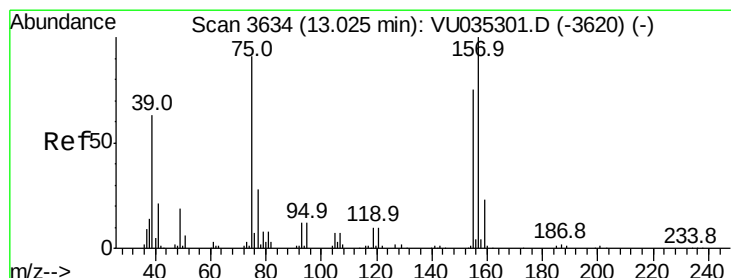
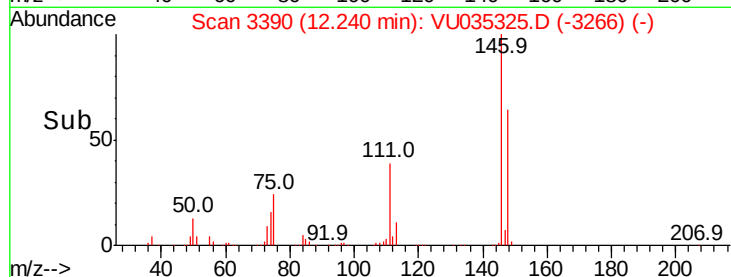
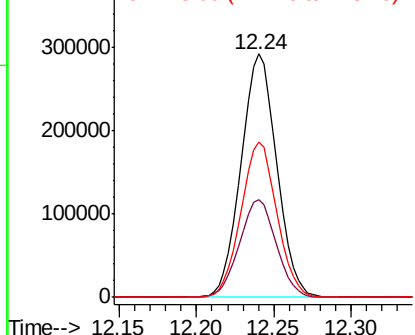
#65
 1,2-Dichlorobenzene
 Concen: 48.121 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	32.8	49.2
148	64.0	50.2	75.4

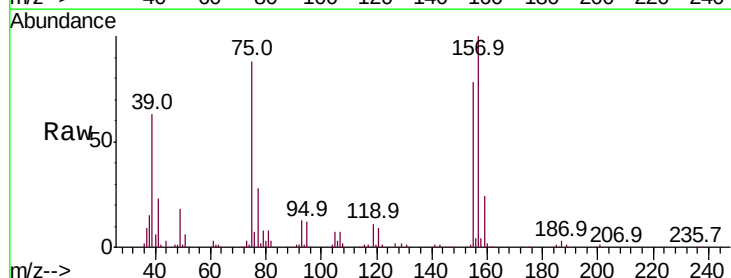


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

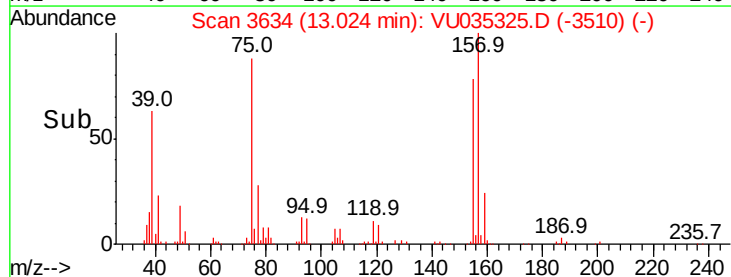
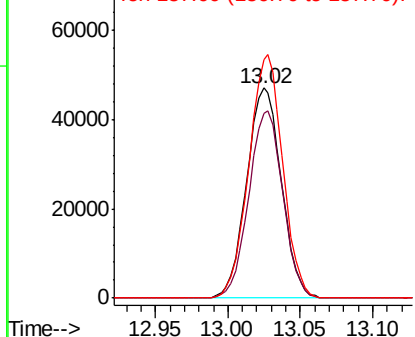


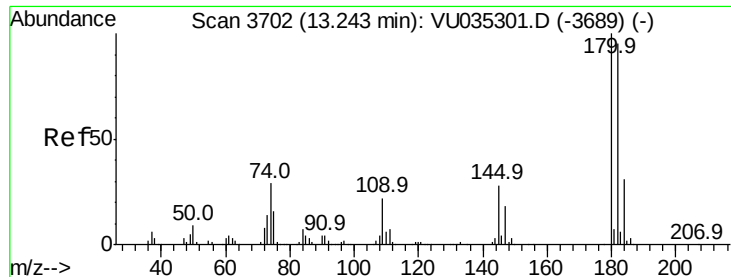
#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.005 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.3	66.2	99.2
157	113.5	88.2	132.2



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

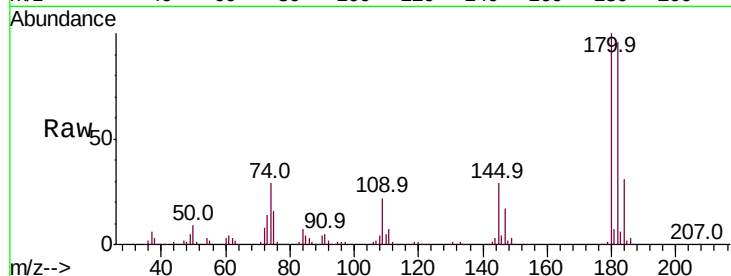




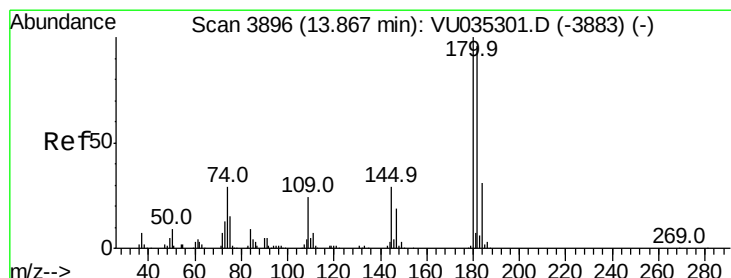
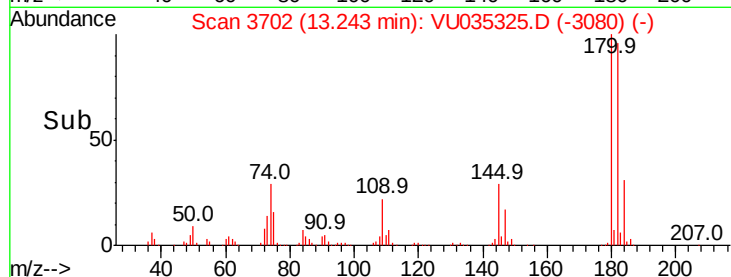
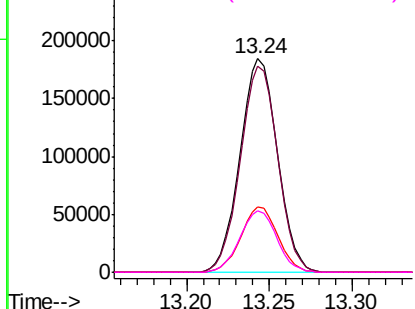
#67
 1,3,5-Trichlorobenzene
 Concen: 53.141 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	290485
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.5	114.7
184	30.2	24.5	36.7
145	28.4	22.2	33.4

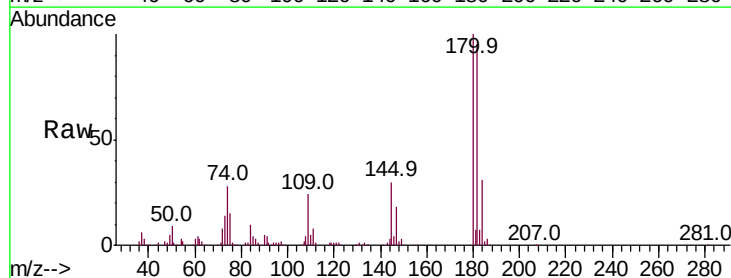


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

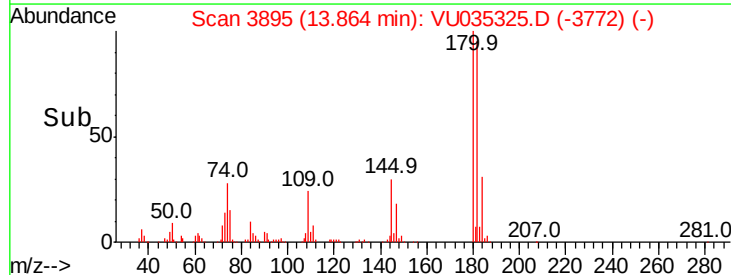
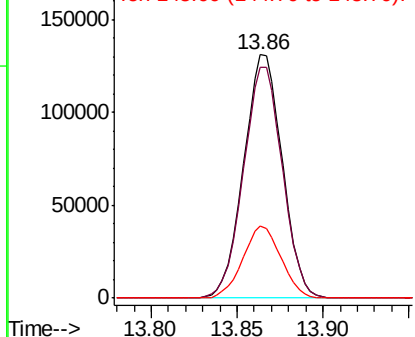


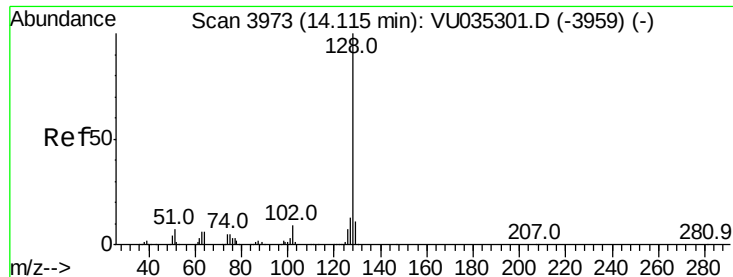
#68
 1,2,4-trichlorobenzene
 Concen: 56.635 ug/L
 RT: 13.86 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU035325.D
 Acq: 21 Oct 2019 15:02

Tgt Ion:	180	Resp:	204048
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.2
145	29.3	22.8	34.2



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

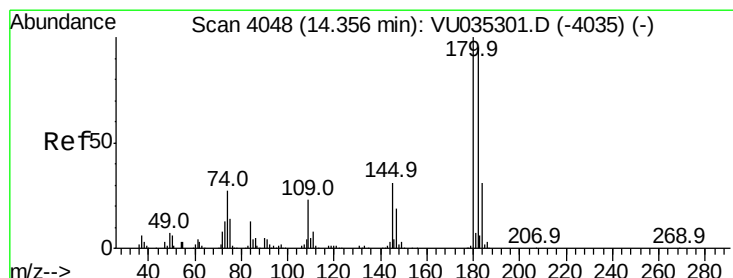
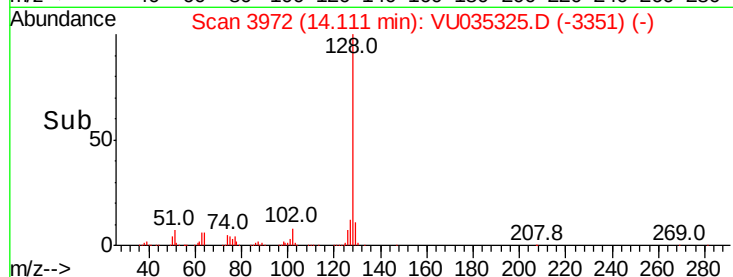
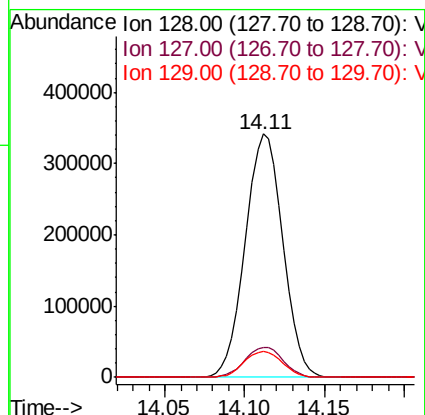
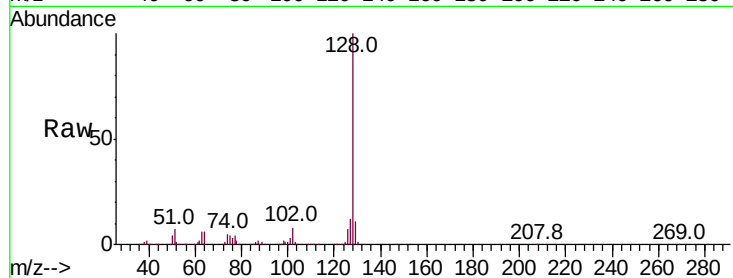




#69
Naphthalene
Concen: 55.148 ug/L
RT: 14.11 min Scan# 3972
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:128 Resp: 546928
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 10.9 8.6 13.0



#70
1,2,3-Trichlorobenzene
Concen: 57.981 ug/L
RT: 14.35 min Scan# 4047
Delta R.T. -0.00 min
Lab File: VU035325.D
Acq: 21 Oct 2019 15:02

Tgt Ion:180 Resp: 216097
Ion Ratio Lower Upper
180 100
182 94.5 76.2 114.2
145 29.8 24.2 36.4

