

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035385.D
 Acq On : 23 Oct 2019 00:11
 Operator : JC/SP
 Sample : K5461-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 08:07:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 08:02:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	255443	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	255047	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	84484	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	113003	7.25	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	145.00%#
7) Chloroethane-d5	1.93	69	98757	6.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	138.80%#
11) 1,1-Dichloroethene-d2	2.60	63	151946	5.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.60%
20) 2-Butanone-d5	4.71	46	211130	47.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.34%
24) Chloroform-d	5.11	84	159606	5.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.20%
26) 1,2-Dichloroethane-d4	5.75	65	97729	6.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	124.00%
32) Benzene-d6	5.77	84	356587	6.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	122.20%
36) 1,2-Dichloropropane-d6	6.74	67	114778	6.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	124.00%
41) Toluene-d8	7.93	98	308876	5.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.80%
43) trans-1,3-Dichloropropene-	8.22	79	39688	4.42	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.40%
46) 2-Hexanone-d5	8.69	63	157034	39.62	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	79.24%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	91679	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	92557	6.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	120.40%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	157365	7.105	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1993	0.117	ug/L #	46
12) 1,1-Dichloroethene	2.61	96	11602	0.707	ug/L #	1
16) Methylene chloride	3.08	84	2548	0.129	ug/L	87
17) Methyl tert-butyl Ether	3.43	73	925809	20.961	ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	64228	3.627	ug/L	97
19) 1,1-Dichloroethane	3.92	63	52113	1.627	ug/L	99
21) 2-Butanone	4.75	43	9316	1.836	ug/L #	48
22) cis-1,2-Dichloroethene	4.72	96	1629953	83.266	ug/L	97
25) Chloroform	5.14	83	19730	0.561	ug/L	99
33) Benzene	5.82	78	27525	0.367	ug/L	100
34) Trichloroethene	6.58	95	3028825	150.127	ug/L	97
35) Methylcyclohexane	6.74	83	26961	0.800	ug/L #	18
39) cis-1,3-Dichloropropene	7.61	75	2661	0.083	ug/L #	54
47) Tetrachloroethene	8.58	164	72976	4.342	ug/L	99
48) 2-Hexanone	8.69	43	19884	2.205	ug/L #	59
49) Dibromochloromethane	8.58	129	64851	3.617	ug/L #	11

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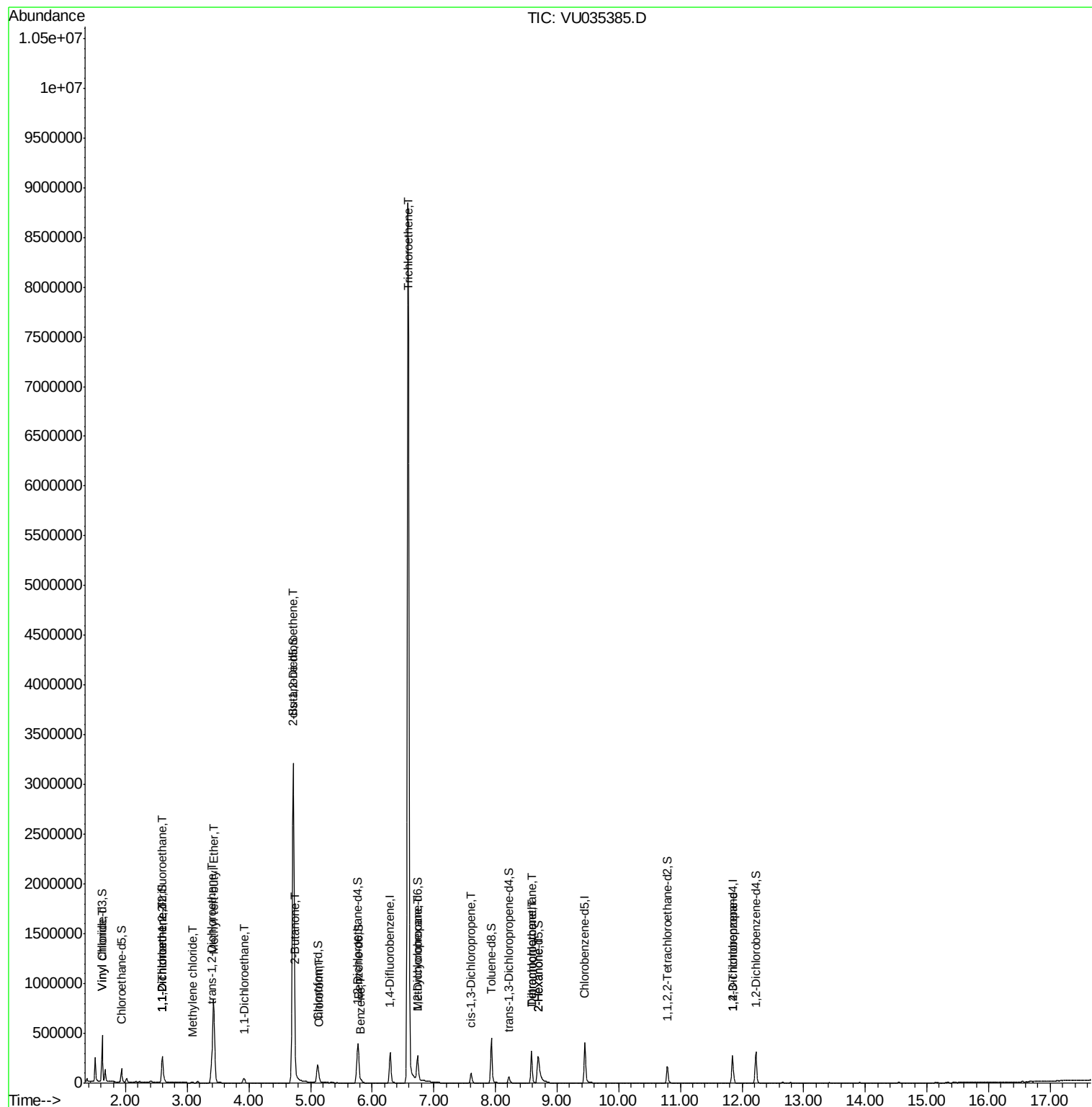
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.84	75	10617	0.800	ug/L #	87

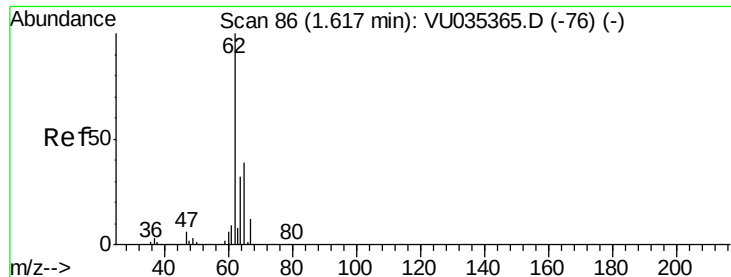
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 08:02:08 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 7.105 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Instrument :

MSVOA_U

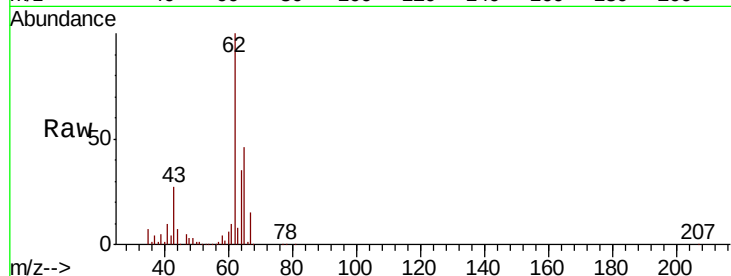
ClientSampleId :

Tot Ion: 62 Resp: 157365

Ion Ratio Lower Upper

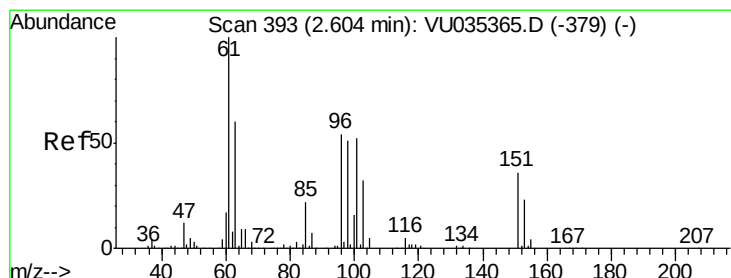
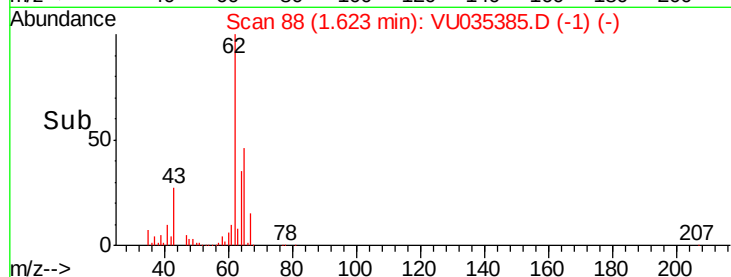
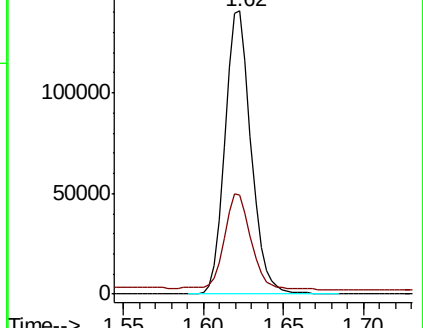
62 100

64 35.0 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU035385.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU035385.D (-1) (-)



#10

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

Concen: 0.117 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

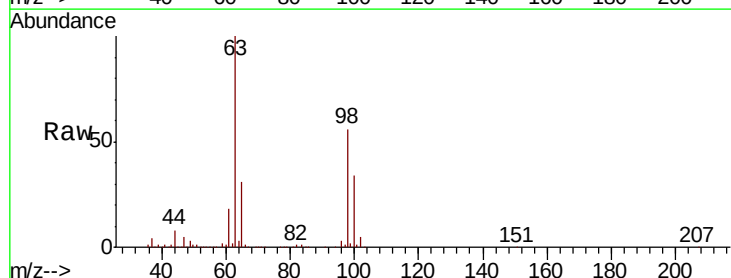
Tgt Ion: 101 Resp: 1993

Ion Ratio Lower Upper

101 100

85 19.2 33.9 50.9#

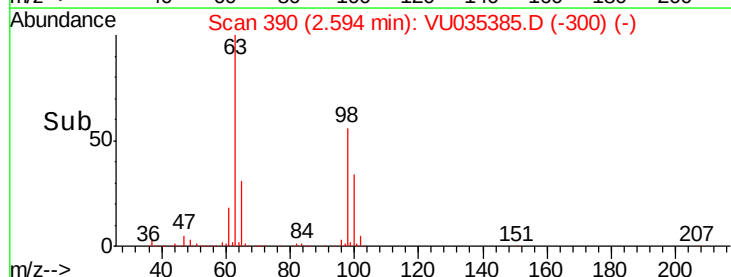
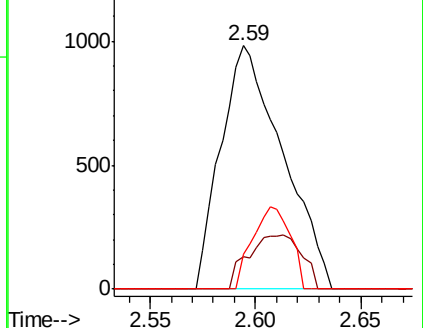
151 20.8 61.0 91.4#

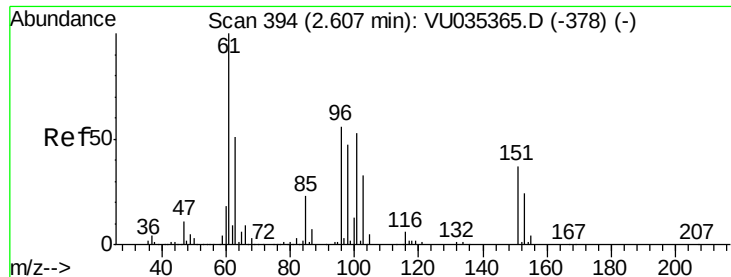


Abundance Ion 101.00 (100.70 to 101.70): VU035385.D (-300) (-)

Ion 85.00 (84.70 to 85.70): VU035385.D (-300) (-)

Ion 151.00 (150.70 to 151.70): VU035385.D (-300) (-)





#12

1,1-Dichloroethene

Concen: 0.707 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Instrument :
MSVOA_U
ClientSampled :

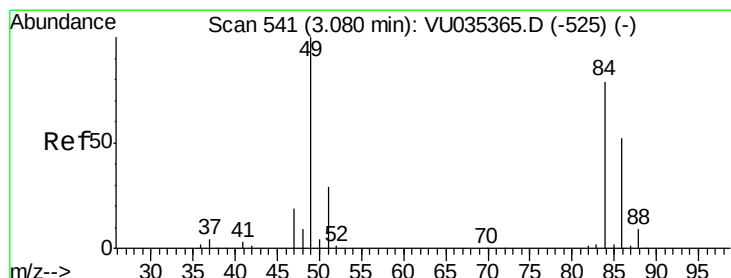
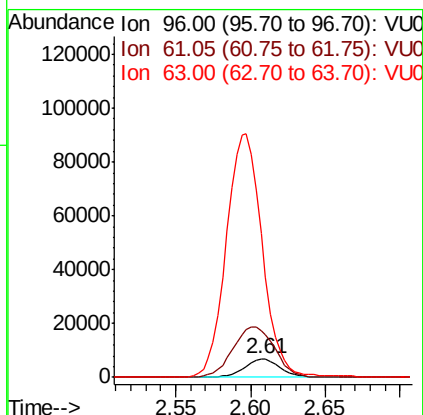
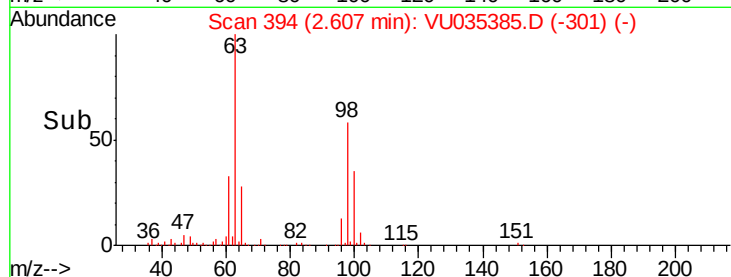
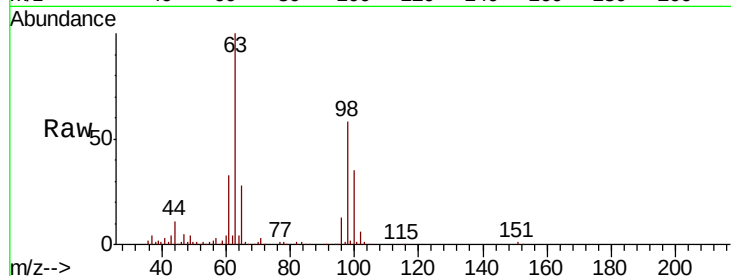
Tot Ion: 96 Resp: 11602

Ion Ratio Lower Upper

96 100

61 253.4 120.6 224.0#

63 775.3 86.8 161.2#



#16

Methylene chloride

Concen: 0.129 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

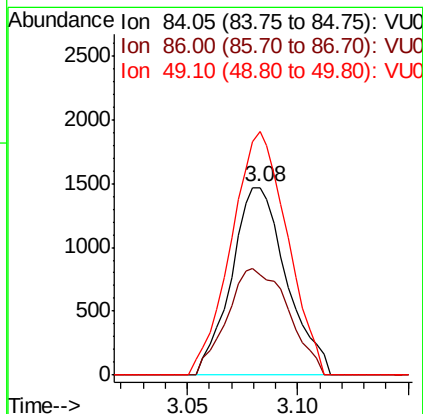
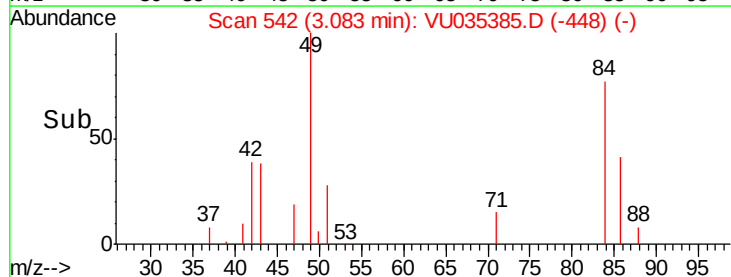
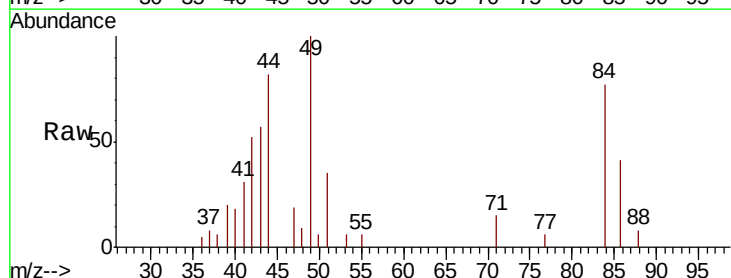
Tgt Ion: 84 Resp: 2548

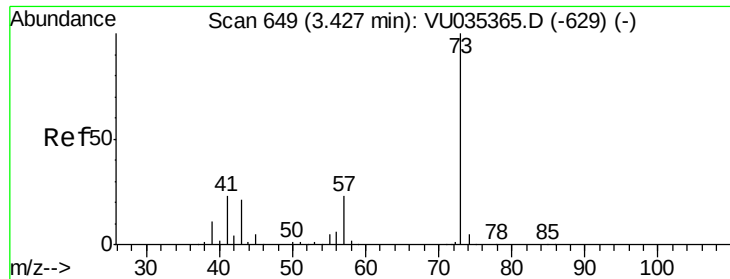
Ion Ratio Lower Upper

84 100

86 53.2 45.4 84.2

49 137.7 86.8 161.2

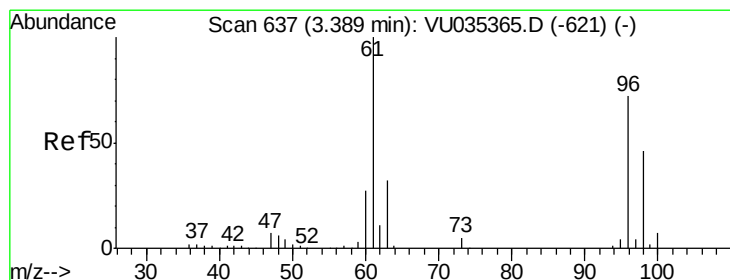
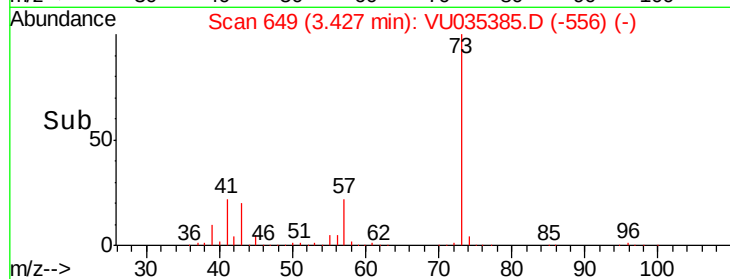
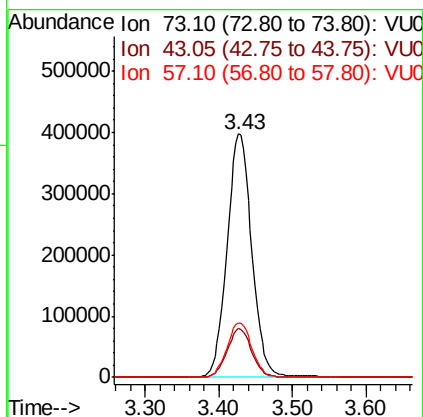
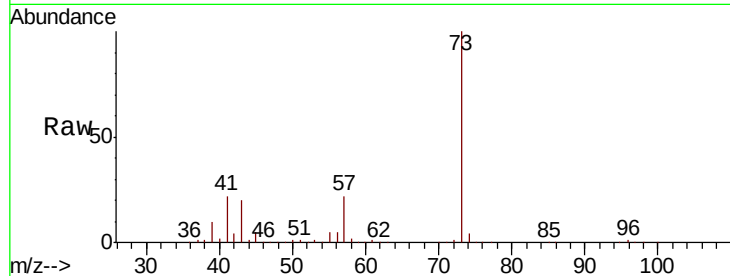




#17
Methyl tert-butyl Ether
Concen: 20.961 ug/L
RT: 3.43 min Scan# 649
Delta R.T. -0.00 min
Lab File: VU035385.D
Acq: 23 Oct 2019 00:11

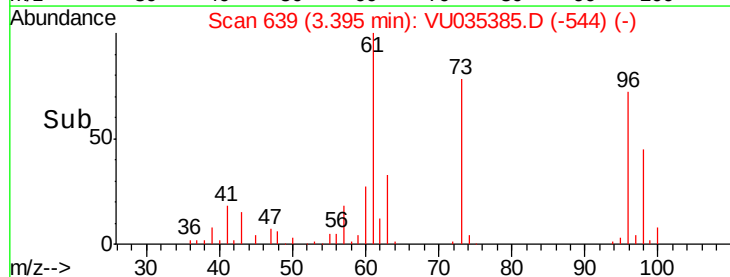
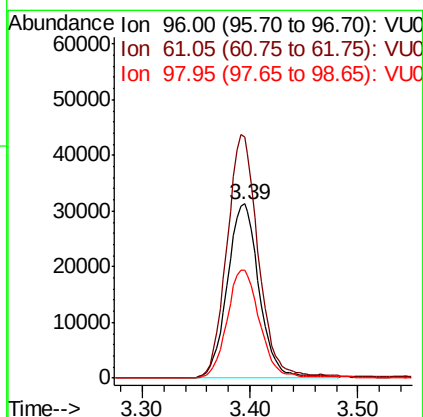
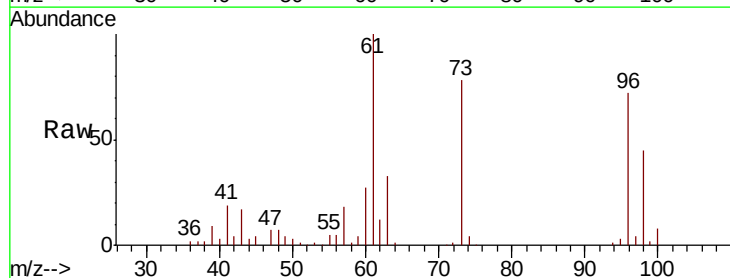
Instrument :
MSVOA_U
ClientSampled :

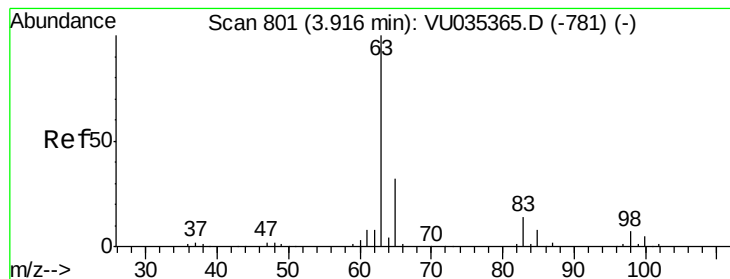
Tot Ion: 73 Resp: 925809
Ion Ratio Lower Upper
73 100
43 20.1 16.0 24.0
57 22.6 17.4 26.2



#18
trans-1,2-Dichloroethene
Concen: 3.627 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU035385.D
Acq: 23 Oct 2019 00:11

Tgt Ion: 96 Resp: 64228
Ion Ratio Lower Upper
96 100
61 138.4 93.0 172.6
98 62.2 43.7 81.1





#19

1,1-Dichloroethane

Concen: 1.627 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Instrument :

MSVOA_U

ClientSampled :

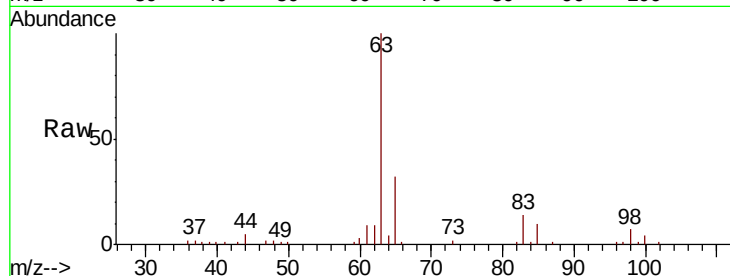
Tot Ion: 63 Resp: 52113

Ion Ratio Lower Upper

63 100

65 31.7 22.4 41.6

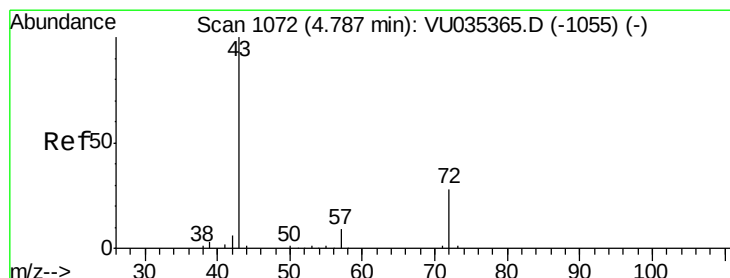
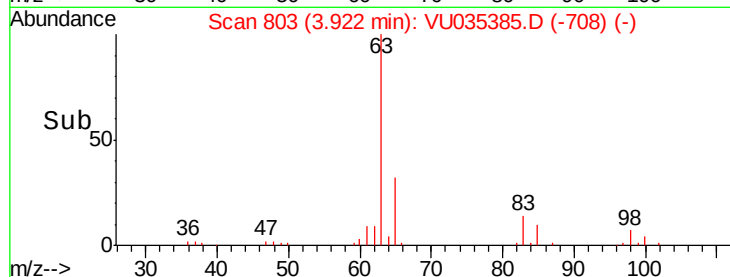
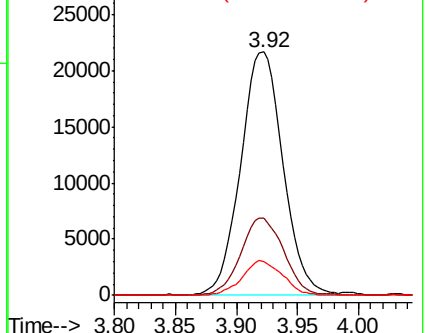
83 13.9 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU035385.D (-781) (-)

Ion 65.10 (64.80 to 65.80): VU035385.D (-781) (-)

Ion 83.05 (82.75 to 83.75): VU035385.D (-781) (-)



#21

2-Butanone

Concen: 1.836 ug/L

RT: 4.75 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VU035385.D

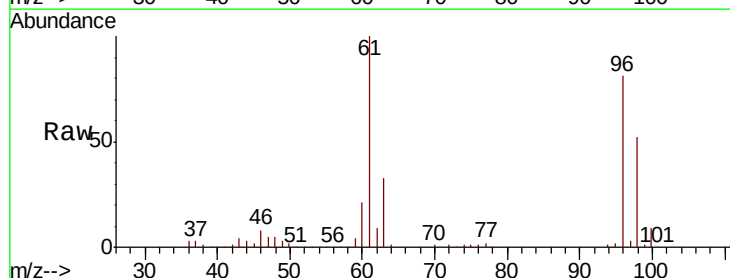
Acq: 23 Oct 2019 00:11

Tgt Ion: 43 Resp: 9316

Ion Ratio Lower Upper

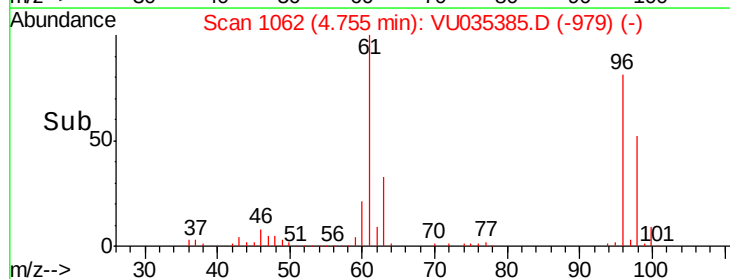
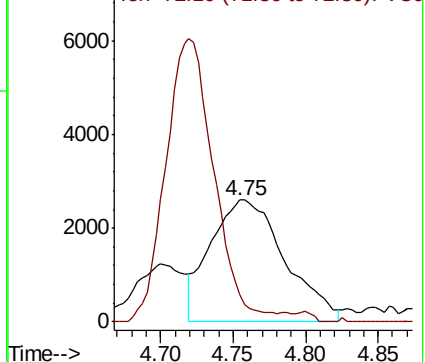
43 100

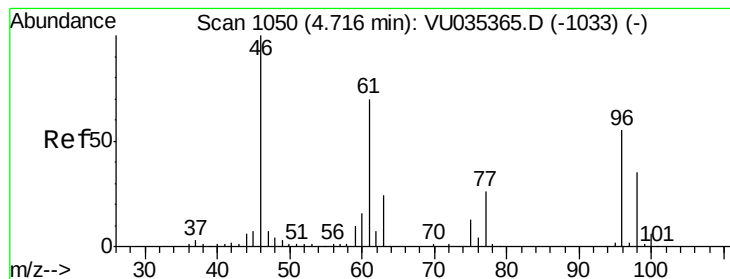
72 0.0 13.6 40.8#



Abundance Ion 43.05 (42.75 to 43.75): VU035385.D (-979) (-)

Ion 72.10 (71.80 to 72.80): VU035385.D (-979) (-)





#22

cis-1,2-Dichloroethene

Concen: 83.266 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Instrument :

MSVOA_U

ClientSampleId :

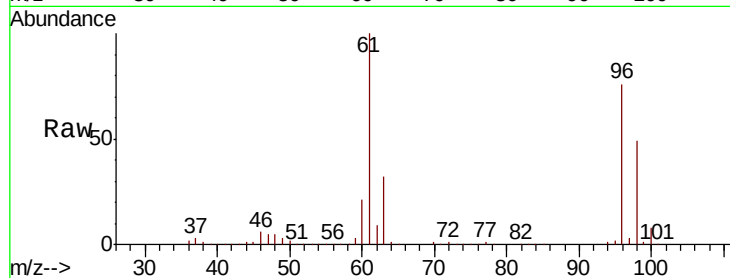
Tot Ion: 96 Resp: 1629953

Ion Ratio Lower Upper

96 100

61 131.4 89.7 166.5

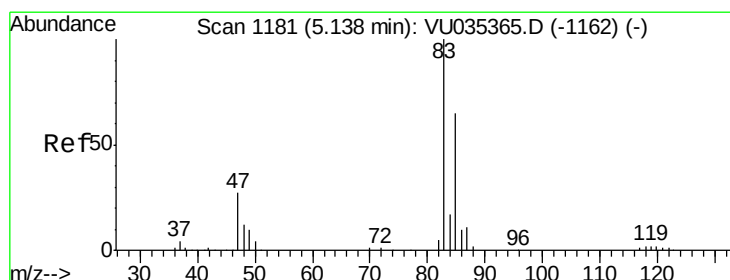
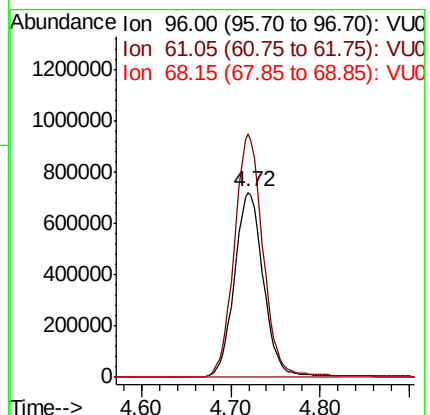
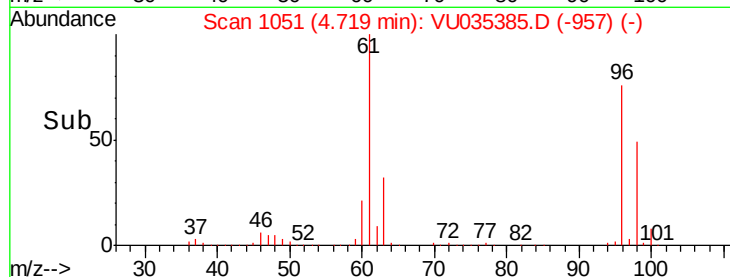
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035385.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU035385.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU035385.D (-957) (-)



#25

Chloroform

Concen: 0.561 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035385.D

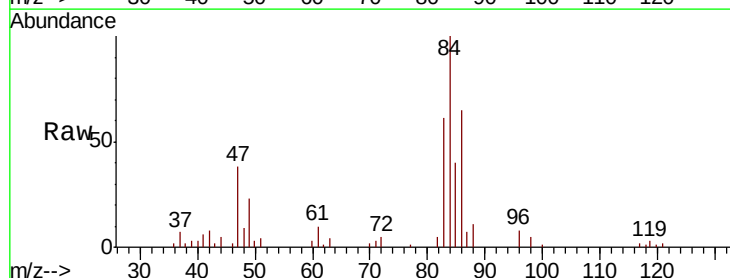
Acq: 23 Oct 2019 00:11

Tgt Ion: 83 Resp: 19730

Ion Ratio Lower Upper

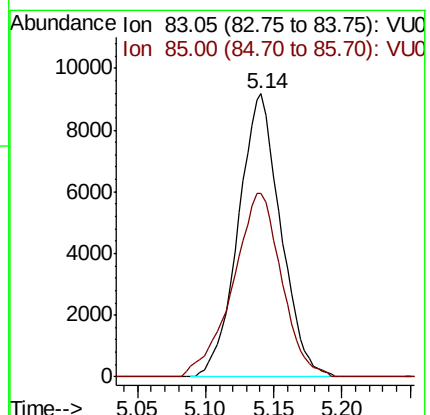
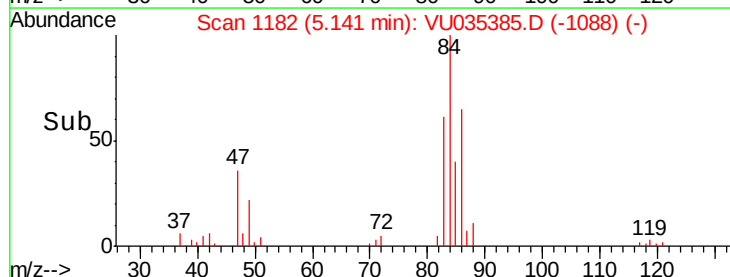
83 100

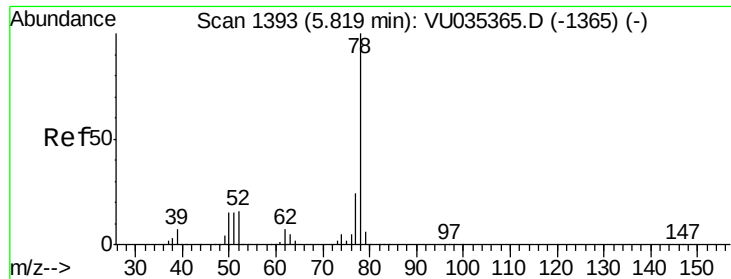
85 65.0 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU035385.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU035385.D (-1088) (-)

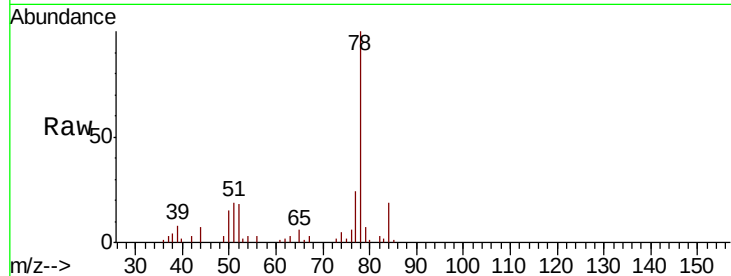




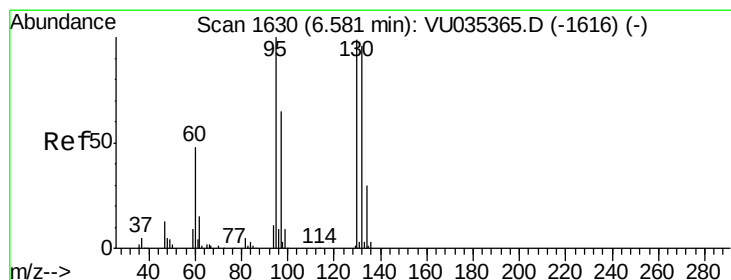
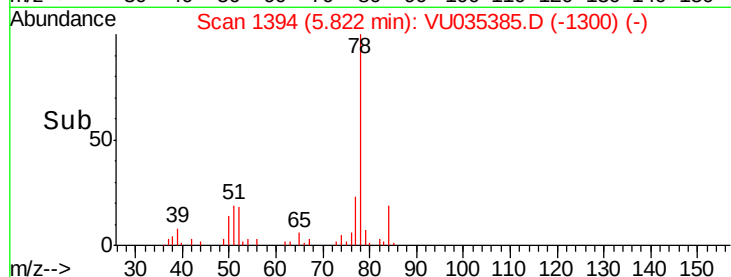
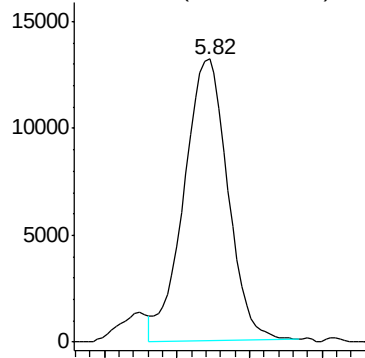
#33
Benzene
Concen: 0.367 ug/L
RT: 5.82 min Scan# 1394
Delta R.T. 0.00 min
Lab File: VU035385.D
Acq: 23 Oct 2019 00:11

Tgt Ion: 78 Resp: 27525

Instrument :
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ClientSampleId :



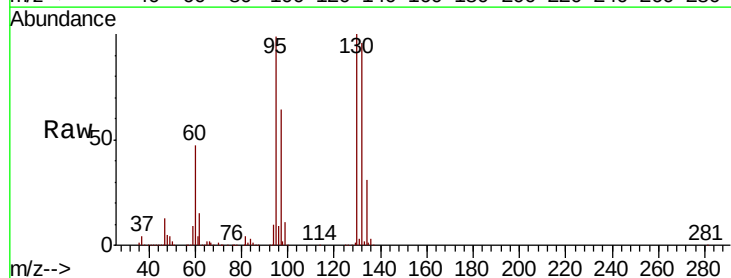
Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 150.127 ug/L
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU035385.D
Acq: 23 Oct 2019 00:11

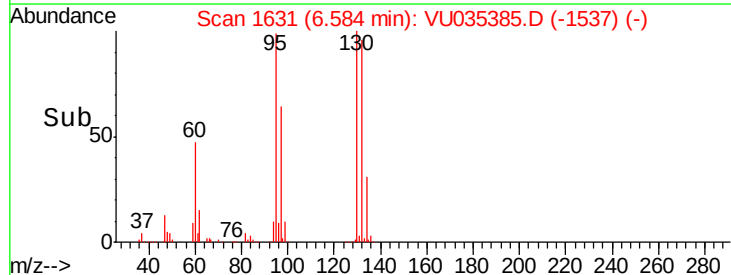
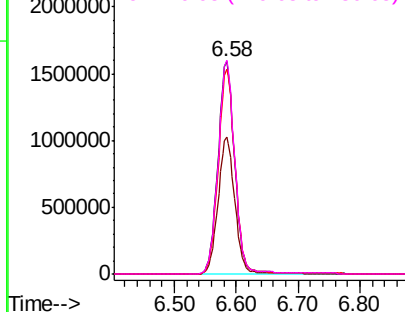
Tgt Ion: 95 Resp: 3028825

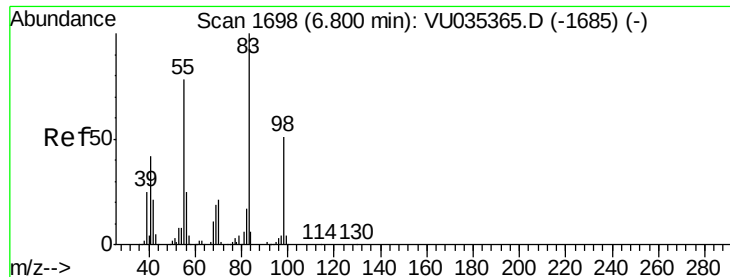
Ion	Ratio	Lower	Upper
95	100		
97	64.5	46.6	86.6
132	96.8	68.7	127.7
130	100.6	73.9	137.3



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V

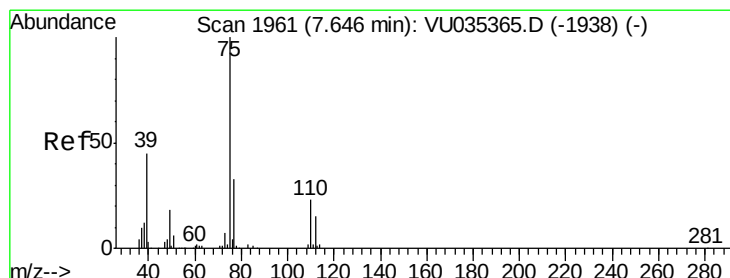
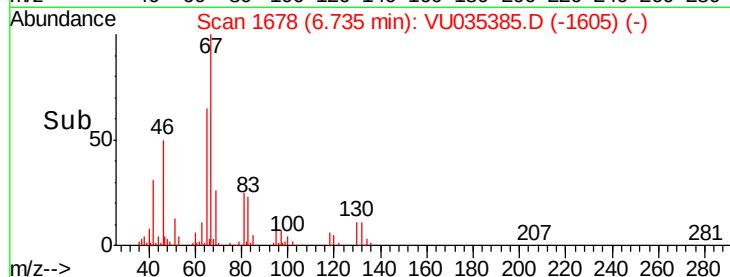
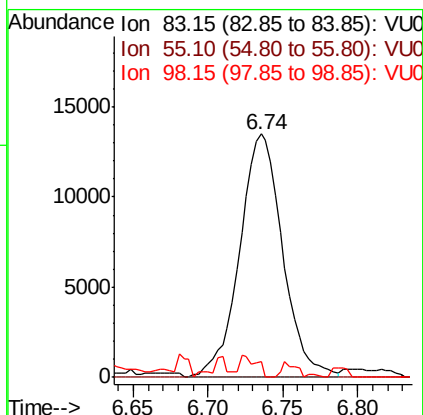
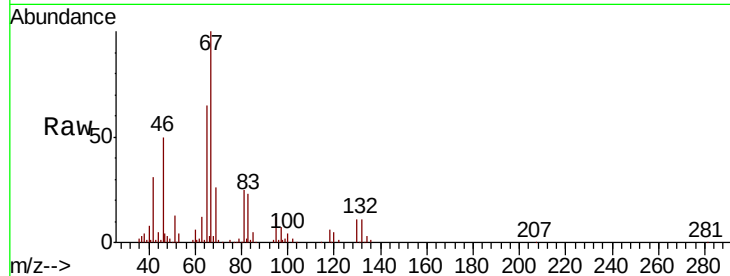




#35
Methylcyclohexane
Concen: 0.800 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.06 min
Lab File: VU035385.D
Acq: 23 Oct 2019 00:11

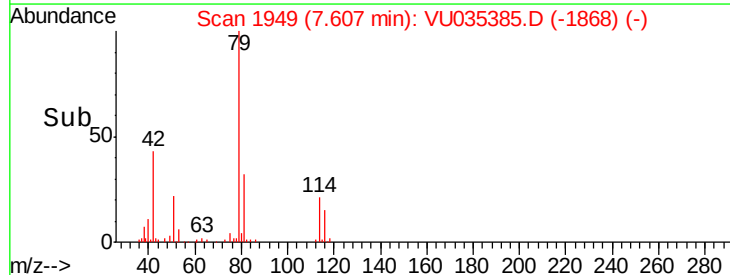
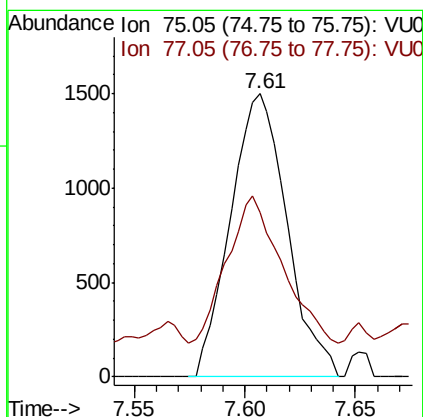
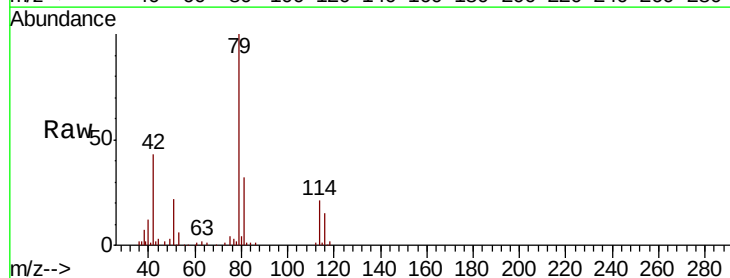
Instrument :
MSVOA_U
ClientSampled :

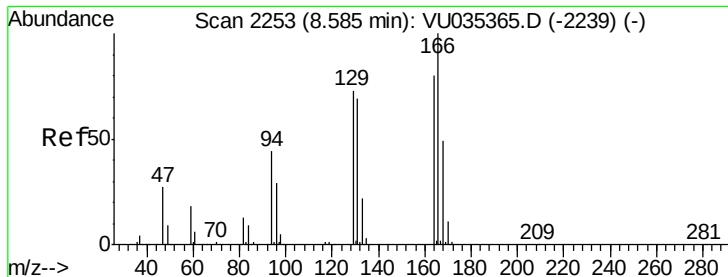
Tot Ion: 83 Resp: 26961
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6#
98 0.0 39.5 59.3#



#39
cis-1,3-Dichloropropene
Concen: 0.083 ug/L
RT: 7.61 min Scan# 1949
Delta R.T. -0.04 min
Lab File: VU035385.D
Acq: 23 Oct 2019 00:11

Tgt Ion: 75 Resp: 2661
Ion Ratio Lower Upper
75 100
77 58.0 22.7 42.1#





#47

Tetrachloroethene

Concen: 4.342 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 72976

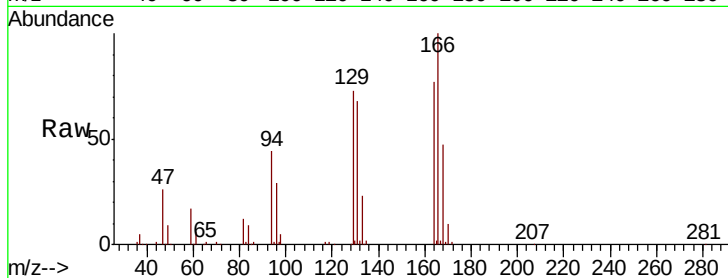
Ion Ratio Lower Upper

164 100

129 94.4 65.2 121.0

131 88.0 62.9 116.9

166 129.3 91.5 169.9

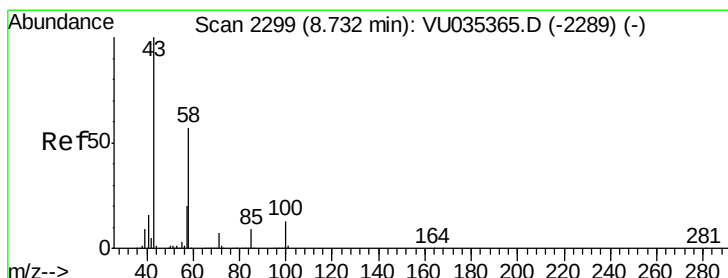
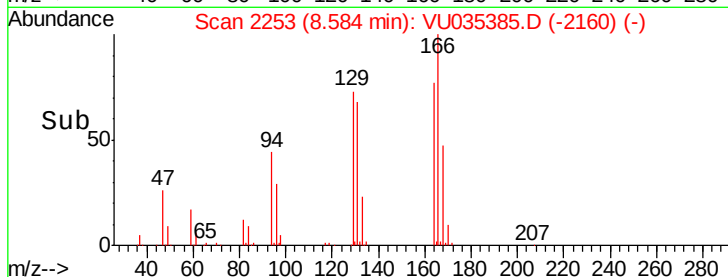
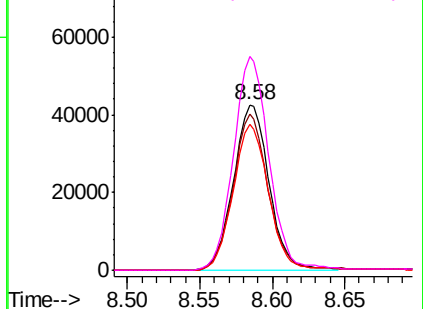


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.205 ug/L

RT: 8.69 min Scan# 2287

Delta R.T. -0.04 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Tgt Ion: 43 Resp: 19884

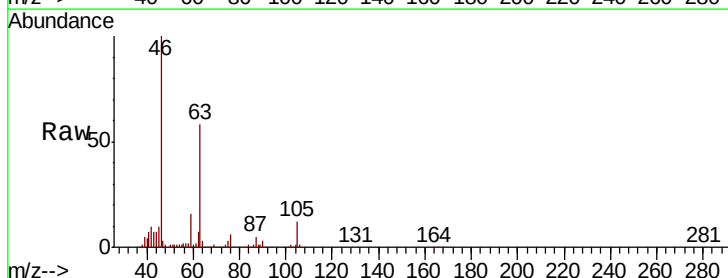
Ion Ratio Lower Upper

43 100

58 19.4 45.1 67.7#

57 28.5 16.0 24.0#

100 0.2 10.4 15.6#

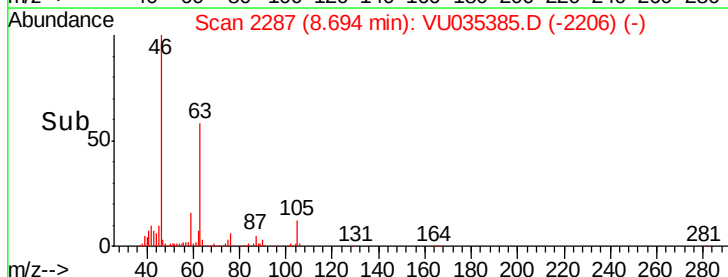
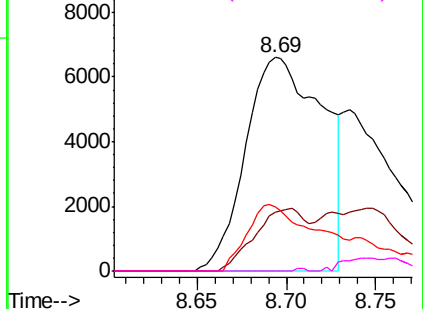


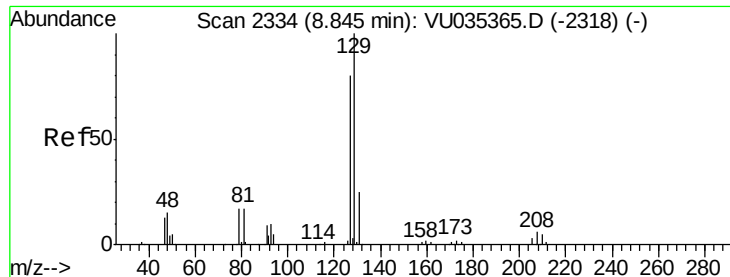
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 3.617 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035385.D

Acq: 23 Oct 2019 00:11

Instrument :

MSVOA_U

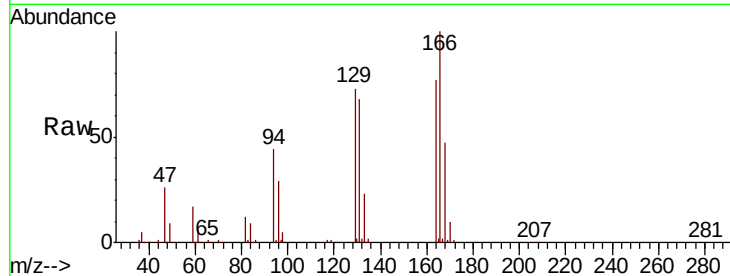
ClientSampleId :

Tot Ion:129 Resp: 64851

Ion Ratio Lower Upper

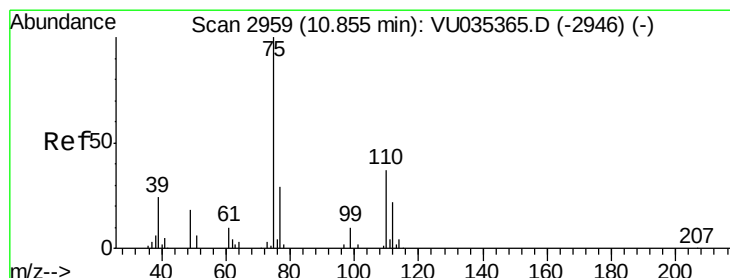
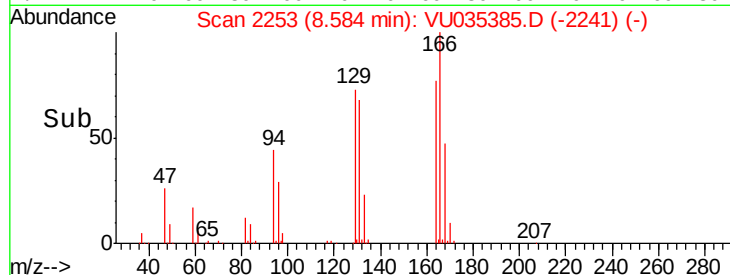
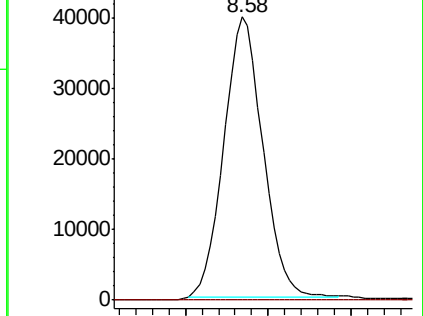
129 100

127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.800 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035385.D

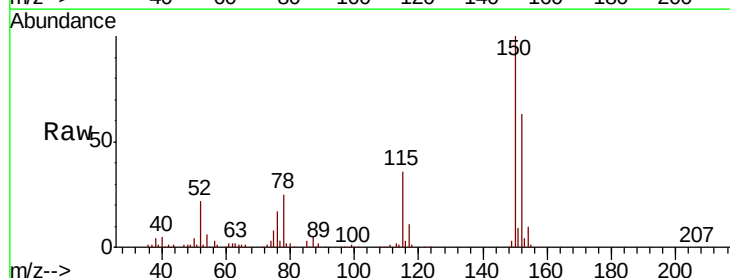
Acq: 23 Oct 2019 00:11

Tgt Ion: 75 Resp: 10617

Ion Ratio Lower Upper

75 100

77 40.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

