

Data File : VU035347.D
Acq On : 22 Oct 2019 02:17
Operator : JC/SP
Sample : K5458-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0K32

Quant Time: Oct 22 06:45:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 22 06:40:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	282799	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	281852	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	95797	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	117653	6.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	136.40%#
7) Chloroethane-d5	1.94	69	104669	6.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	132.80%#
11) 1,1-Dichloroethene-d2	2.60	63	291427	9.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	182.80%#
20) 2-Butanone-d5	4.70	46	273183	55.13	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.26%
24) Chloroform-d	5.11	84	192056	6.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	122.00%
26) 1,2-Dichloroethane-d4	5.75	65	105293	6.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	120.60%
32) Benzene-d6	5.77	84	397335	6.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	123.20%
36) 1,2-Dichloropropane-d6	6.74	67	124798	6.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	122.00%
41) Toluene-d8	7.93	98	353717	5.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.80%
43) trans-1,3-Dichloropropene-	8.22	79	46177	4.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.00%
46) 2-Hexanone-d5	8.69	63	205379	46.89	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.78%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	100200	5.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	105768	6.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	121.20%#

Target Compounds

					Qvalue	
5) Vinyl chloride	1.62	62	4677	0.191	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	2222	0.118	ug/L #	39
12) 1,1-Dichloroethene	2.61	96	234393	12.902	ug/L #	83
13) Acetone	2.67	43	4960	1.439	ug/L	78
15) Methyl Acetate	2.82	43	21618	2.517	ug/L #	50
16) Methylene chloride	3.08	84	2894	0.132	ug/L	95
17) Methyl tert-butyl Ether	3.43	73	13510	0.276	ug/L #	90
18) trans-1,2-Dichloroethene	3.39	96	8089	0.413	ug/L	85
19) 1,1-Dichloroethane	3.92	63	49598	1.399	ug/L	100
22) cis-1,2-Dichloroethene	4.72	96	301984	13.935	ug/L	99
25) Chloroform	5.14	83	10674	0.274	ug/L	95
29) 1,1,1-Trichloroethane	5.36	97	22938	0.695	ug/L	99
34) Trichloroethene	6.58	95	500201	22.435	ug/L	96
35) Methylcyclohexane	6.73	83	29658	0.796	ug/L #	20
37) 1,2-Dichloropropane	6.74	63	13939	0.662	ug/L #	86
39) cis-1,3-Dichloropropene	7.61	75	3203	0.091	ug/L #	44
45) 1,1,2-Trichloroethane	8.44	97	2813	0.180	ug/L	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102219\
Quantitation Report (Not Reviewed)

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QLast Update : Tue Oct 22 06:40:31 2019
Response via : Initial Calibration

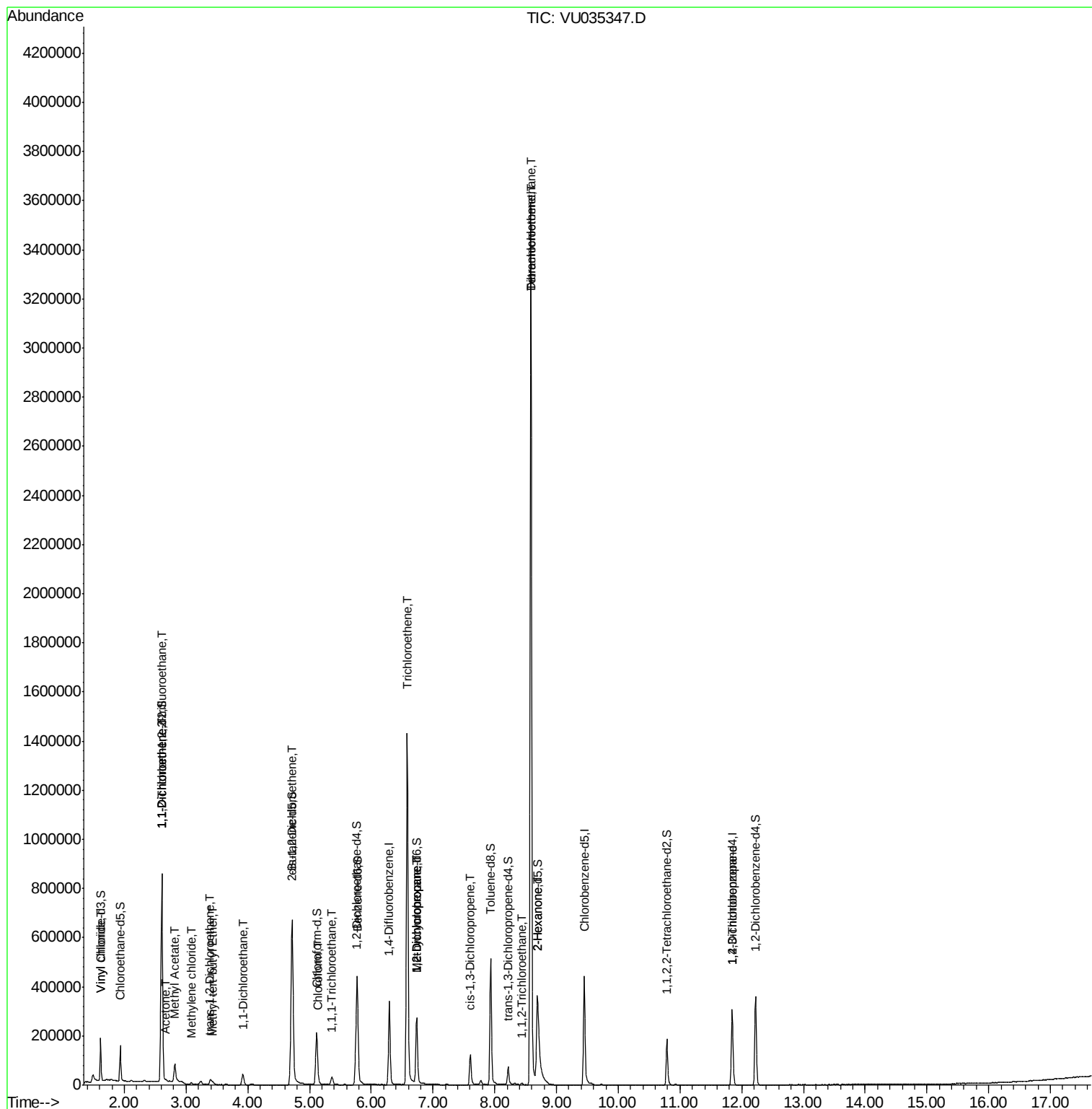
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.58	164	822989	44.308	ug/L	99
48) 2-Hexanone	8.70	43	20646	2.071	ug/L #	69
49) Dibromochloromethane	8.58	129	747142	37.706	ug/L #	11
59) 1,2,3-Trichloropropane	11.84	75	11843	0.807	ug/L	89

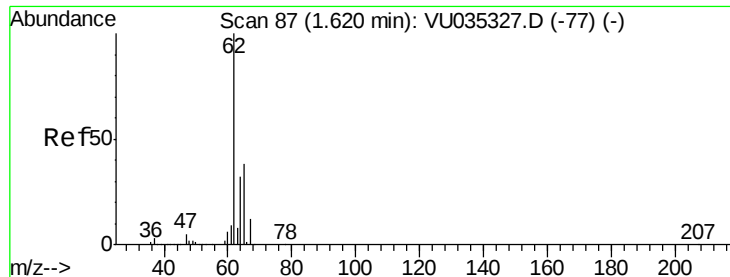
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.191 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampleId :

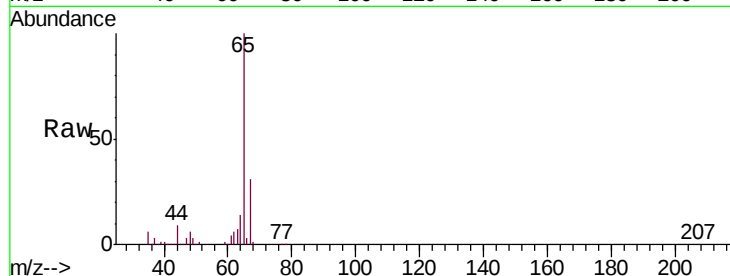
C0K32

Tgt Ion: 62 Resp: 4677

Ion Ratio Lower Upper

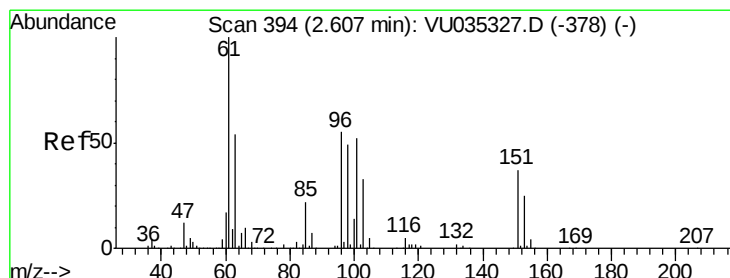
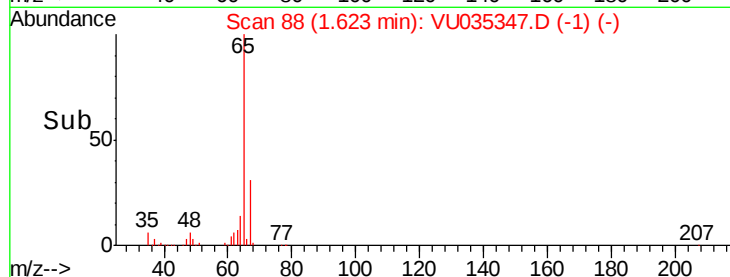
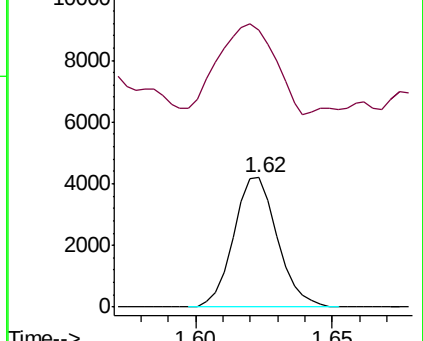
62 100

64 214.3 22.9 42.5#



Abundance Ion 62.00 (61.70 to 62.70): VU035327.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU035327.D (-77) (-)



#10

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

Concen: 0.118 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

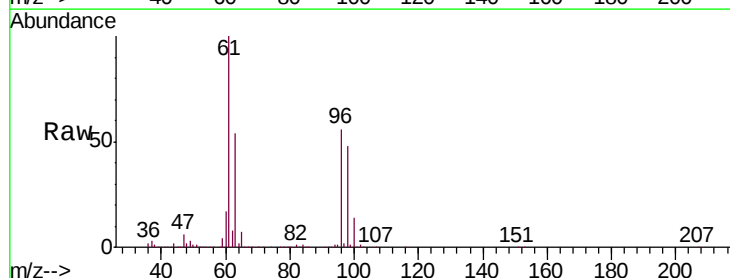
Tgt Ion: 101 Resp: 2222

Ion Ratio Lower Upper

101 100

85 20.1 33.9 50.9#

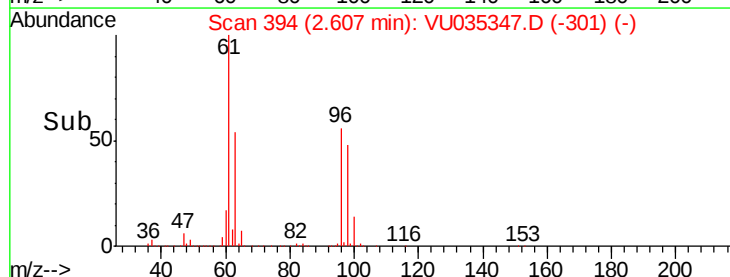
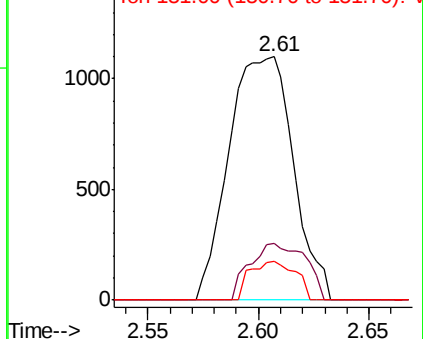
151 11.3 61.0 91.4#

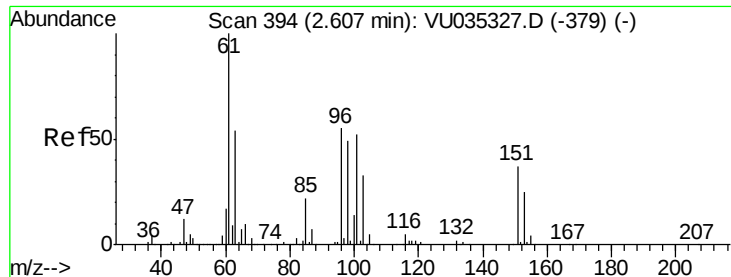


Abundance Ion 101.00 (100.70 to 101.70): VU035327.D (-378) (-)

Ion 85.00 (84.70 to 85.70): VU035327.D (-378) (-)

Ion 151.00 (150.70 to 151.70): VU035327.D (-378) (-)





#12

1,1-Dichloroethene

Concen: 12.902 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampleId :

C0K32

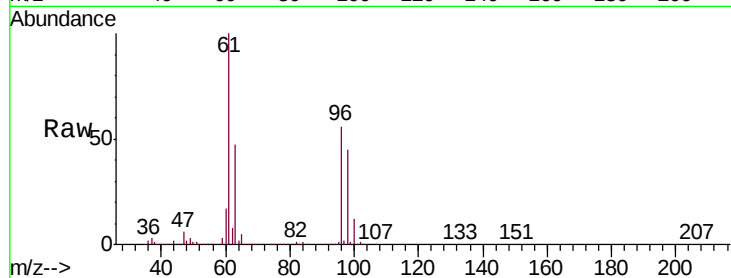
Tgt Ion: 96 Resp: 234393

Ion Ratio Lower Upper

96 100

61 177.6 120.6 224.0

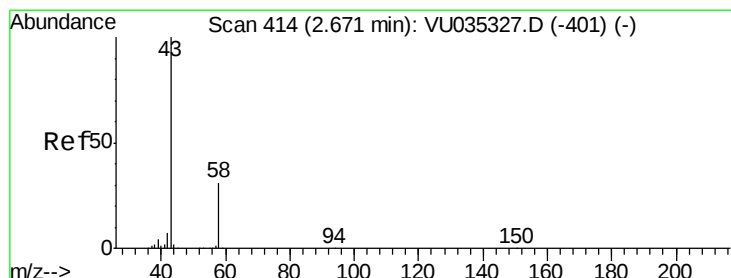
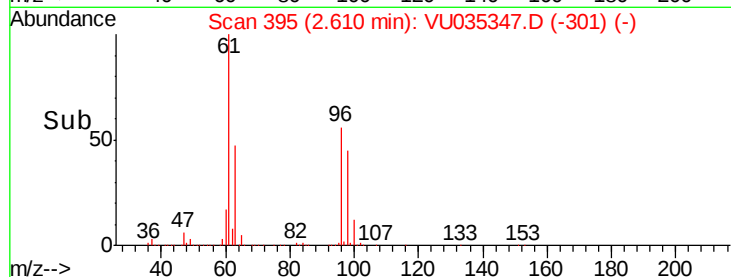
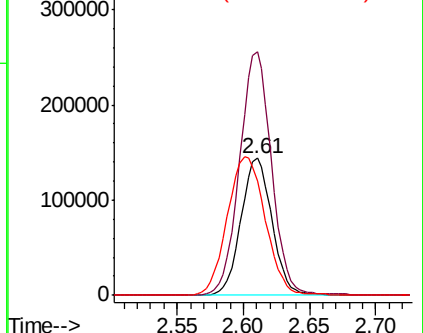
63 83.7 86.8 161.2#



Abundance Ion 96.00 (95.70 to 96.70): VU035347.D (-395) (-)

Ion 61.05 (60.75 to 61.75): VU035347.D (-395) (-)

Ion 63.00 (62.70 to 63.70): VU035347.D (-395) (-)



#13

Acetone

Concen: 1.439 ug/L

RT: 2.67 min Scan# 415

Delta R.T. 0.00 min

Lab File: VU035347.D

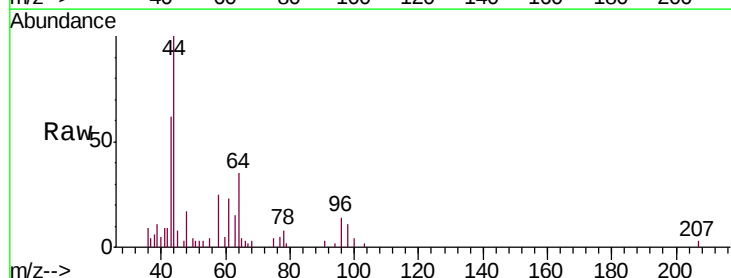
Acq: 22 Oct 2019 02:17

Tgt Ion: 43 Resp: 4960

Ion Ratio Lower Upper

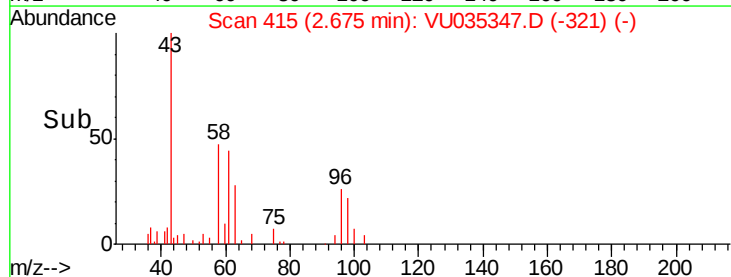
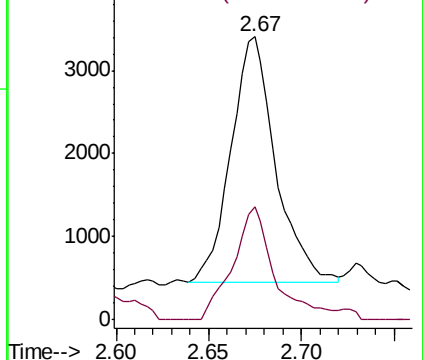
43 100

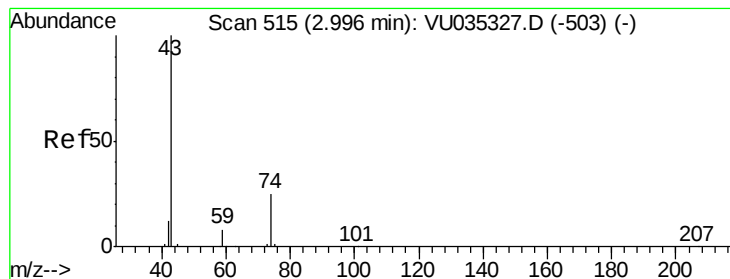
58 42.8 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035347.D (-415) (-)

Ion 58.05 (57.75 to 58.75): VU035347.D (-415) (-)





#15

Methyl Acetate

Concen: 2.517 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.18 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampleId :

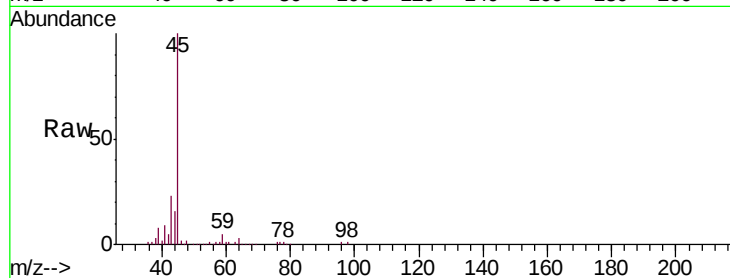
C0K32

Tgt Ion: 43 Resp: 21618

Ion Ratio Lower Upper

43 100

74 0.2 20.3 30.5#



Abundance Ion 43.05 (42.75 to 43.75): VU035327.D (-503) (-)

Ion 74.05 (73.75 to 74.75): VU035327.D (-503) (-)

2.82

12000

10000

8000

6000

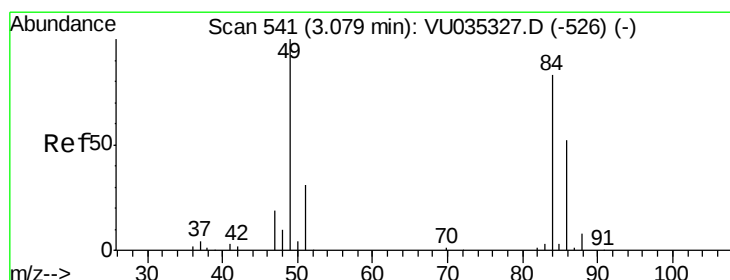
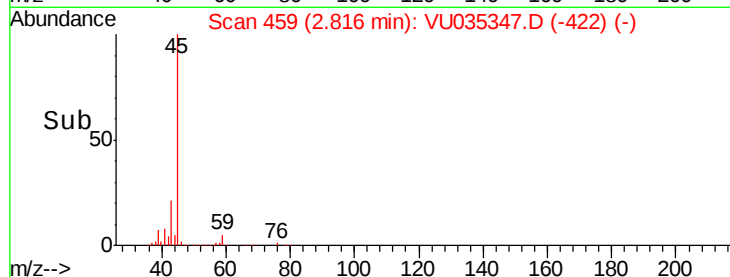
4000

2000

0

Time-->

2.75 2.80 2.85 2.90



#16

Methylene chloride

Concen: 0.132 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

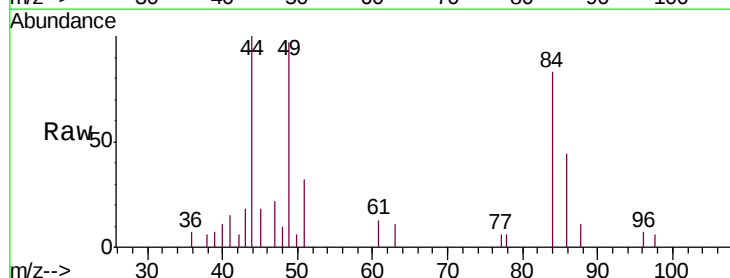
Tgt Ion: 84 Resp: 2894

Ion Ratio Lower Upper

84 100

86 52.8 45.4 84.2

49 123.6 86.8 161.2



Abundance Ion 84.05 (83.75 to 84.75): VU035327.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU035327.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU035327.D (-526) (-)

2500

2000

1500

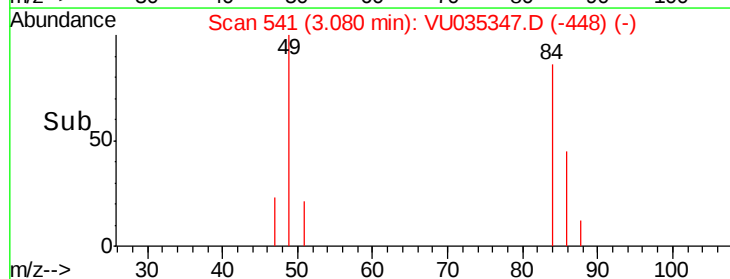
1000

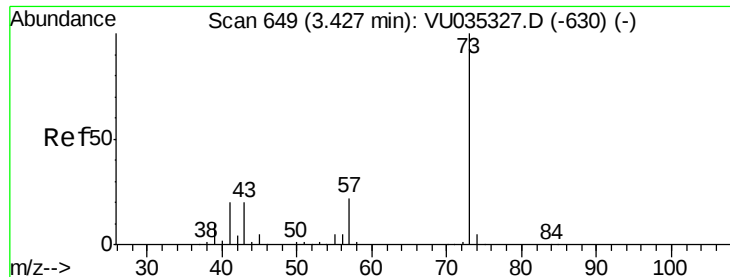
500

0

Time-->

3.05 3.10 3.15





#17

Methyl tert-butyl Ether

Concen: 0.276 ug/L

RT: 3.43 min Scan# 649

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampleId :

C0K32

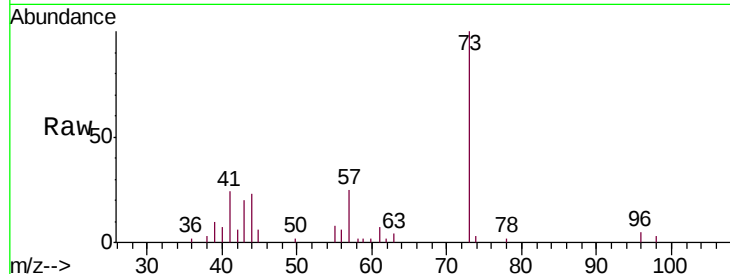
Tgt Ion: 73 Resp: 13510

Ion Ratio Lower Upper

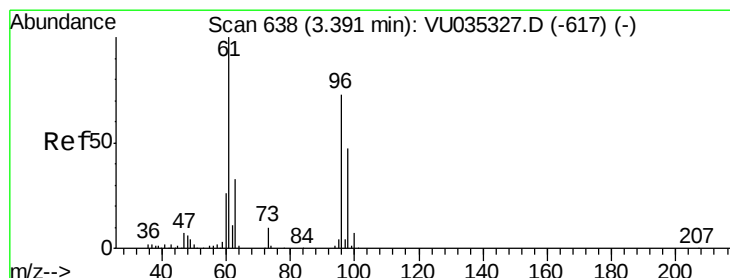
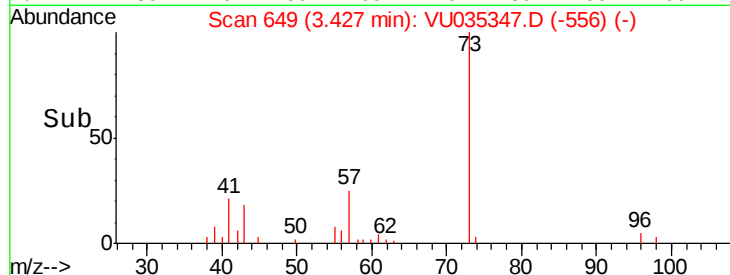
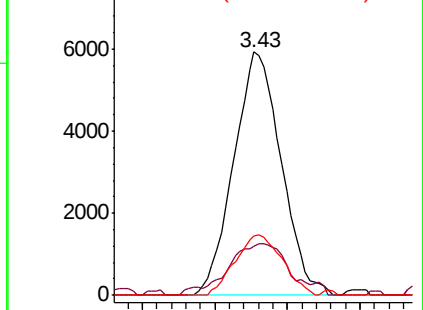
73 100

43 26.5 16.0 24.0#

57 24.6 17.4 26.2



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



#18

trans-1,2-Dichloroethene

Concen: 0.413 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

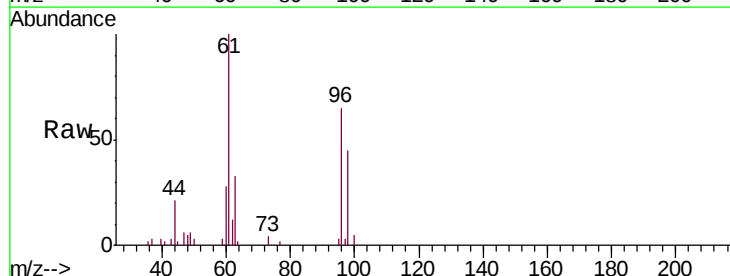
Tgt Ion: 96 Resp: 8089

Ion Ratio Lower Upper

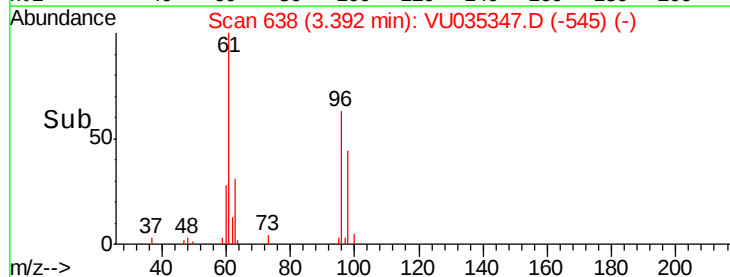
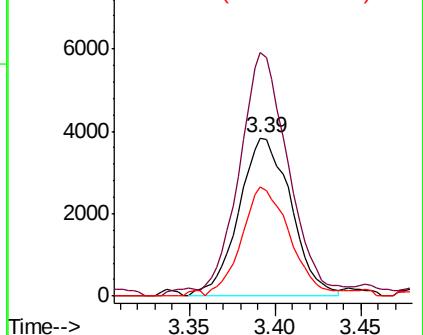
96 100

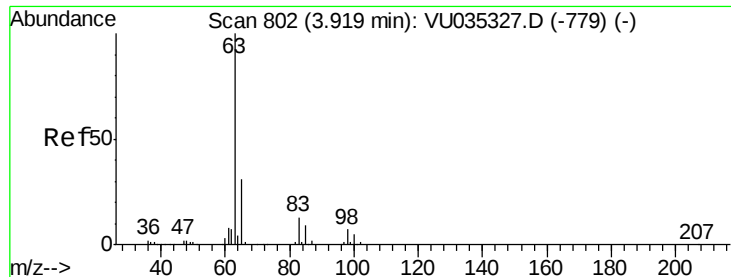
61 154.2 93.0 172.6

98 69.5 43.7 81.1



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

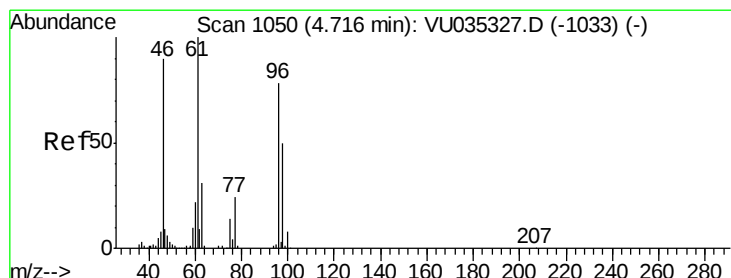
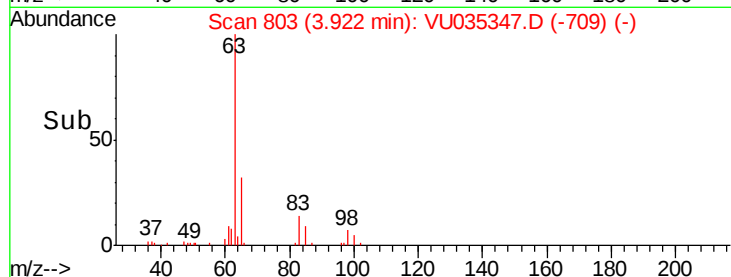
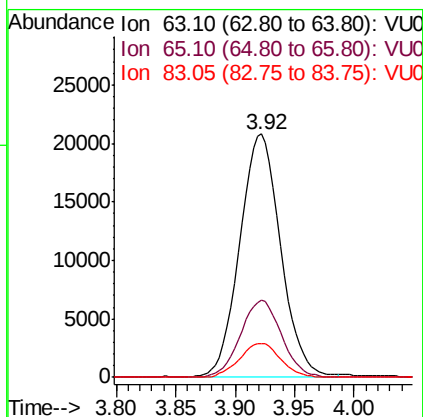
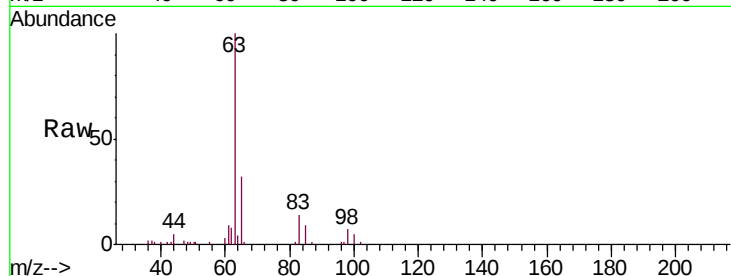




#19
 1,1-Dichloroethane
 Concen: 1.399 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. 0.00 min
 Lab File: VU035347.D
 Acq: 22 Oct 2019 02:17

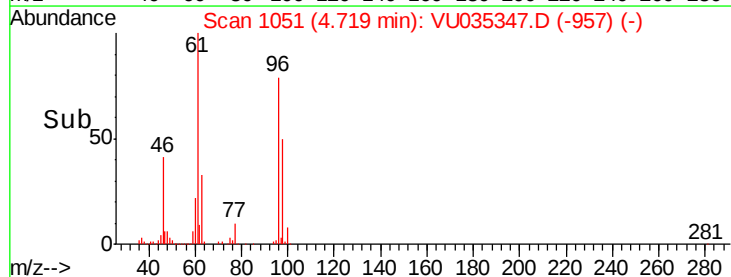
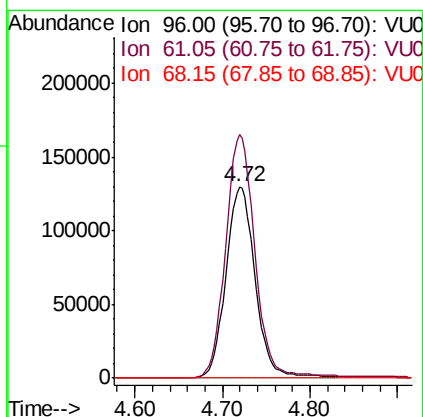
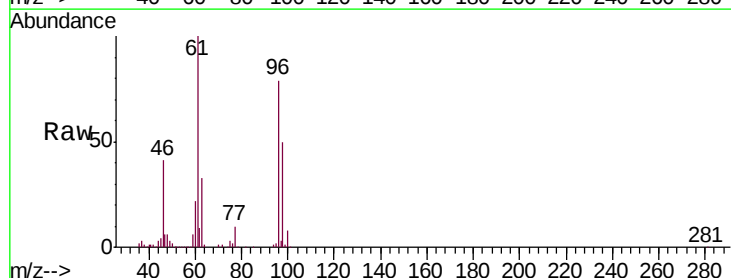
Instrument :
 MSVOA_U
 ClientSampled :
 C0K32

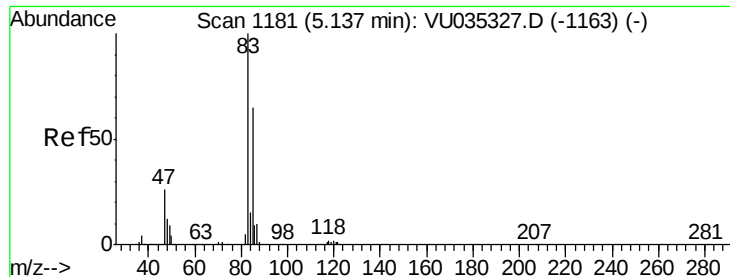
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.4	41.6
83	13.8	9.3	17.3



#22
 cis-1,2-Dichloroethene
 Concen: 13.935 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU035347.D
 Acq: 22 Oct 2019 02:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.0	89.7	166.5
68	0.0	0.0	0.0





#25

Chloroform

Concen: 0.274 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampled :

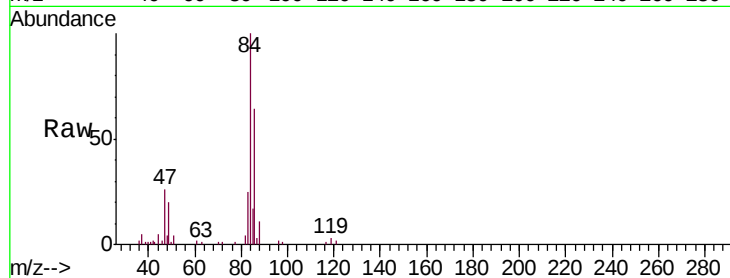
C0K32

Tgt Ion: 83 Resp: 10674

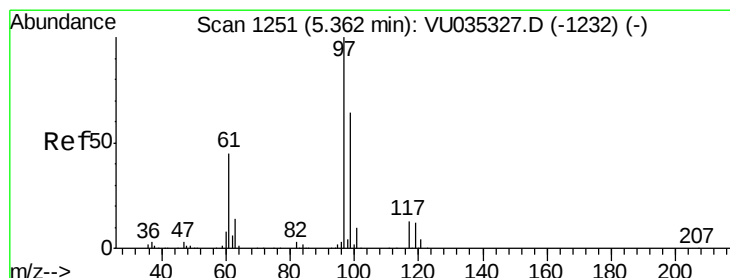
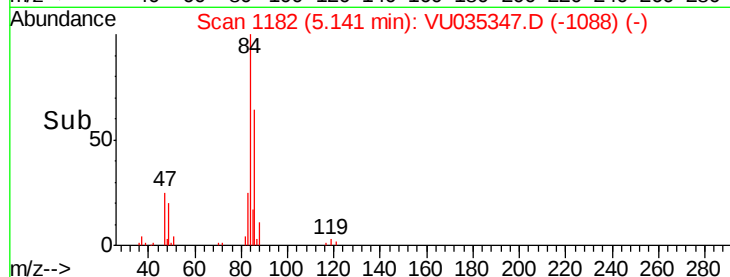
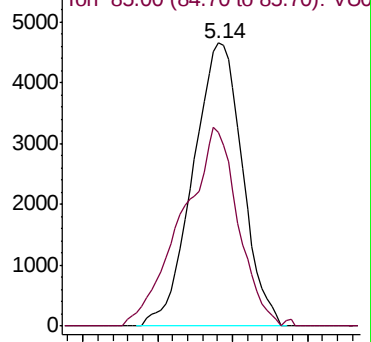
Ion Ratio Lower Upper

83 100

85 68.6 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU035327.D (-1163) (-)



#29

1,1,1-Trichloroethane

Concen: 0.695 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

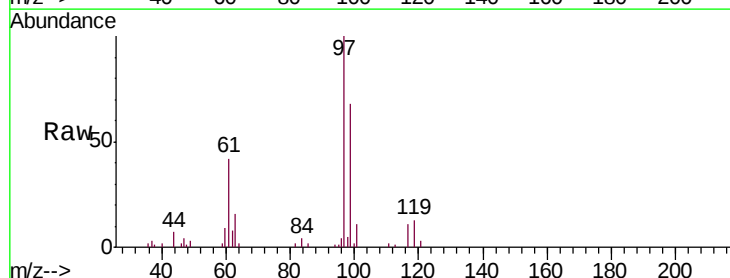
Tgt Ion: 97 Resp: 22938

Ion Ratio Lower Upper

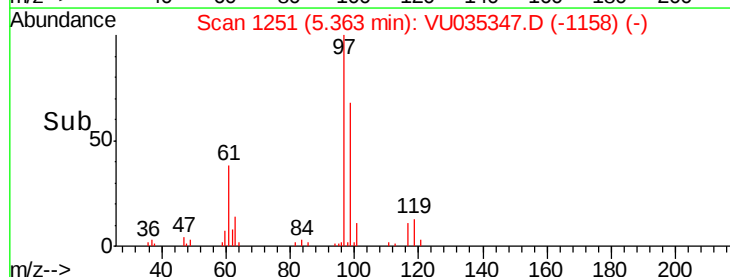
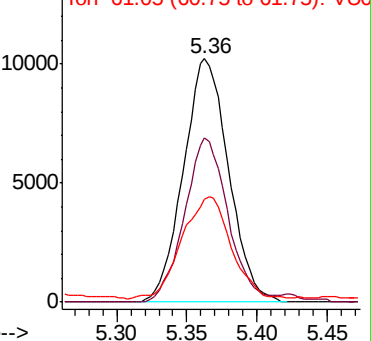
97 100

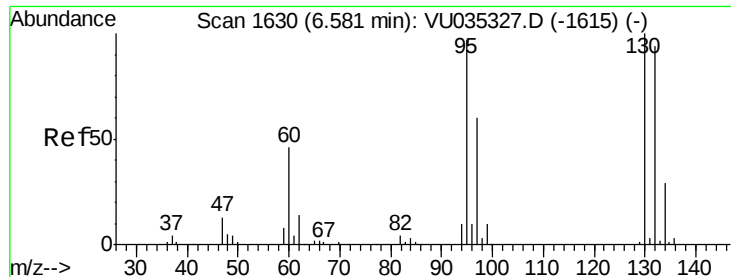
99 64.9 52.6 79.0

61 45.2 37.0 55.4



Abundance Ion 96.95 (96.65 to 97.65): VU035327.D (-1232) (-)





#34

Trichloroethene

Concen: 22.435 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampleId :

C0K32

Tgt Ion: 95 Resp: 500201

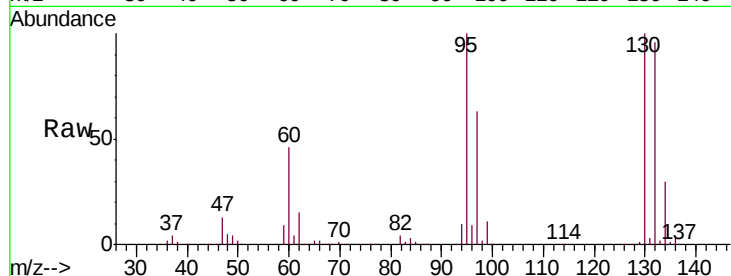
Ion Ratio Lower Upper

95 100

97 62.7 46.6 86.6

132 96.2 68.7 127.7

130 100.1 73.9 137.3

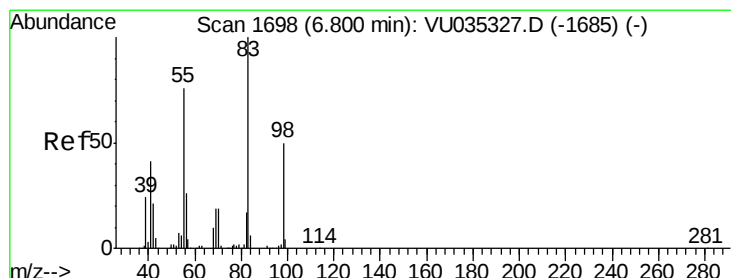
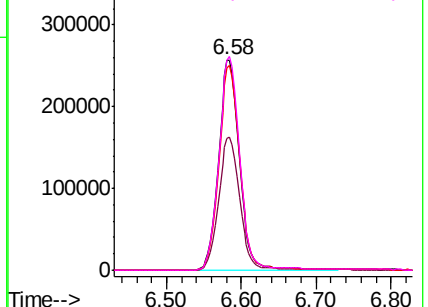
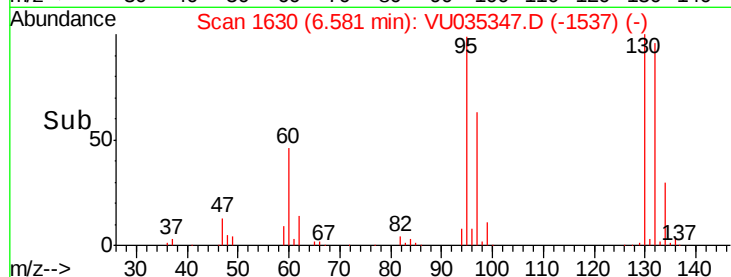


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.796 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

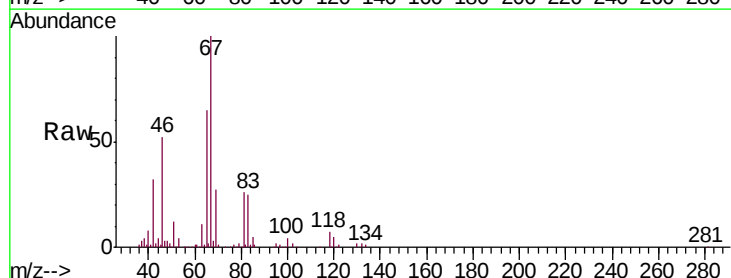
Tgt Ion: 83 Resp: 29658

Ion Ratio Lower Upper

83 100

55 1.5 60.4 90.6#

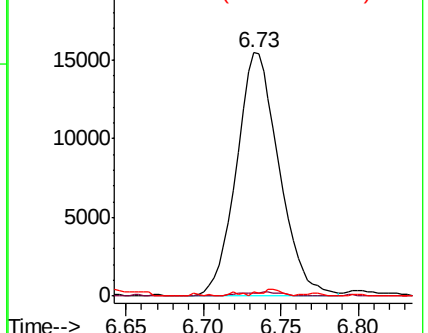
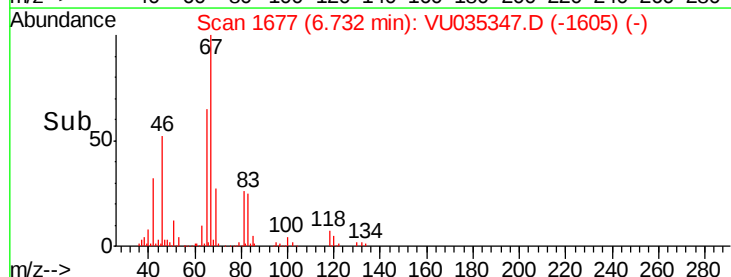
98 1.4 39.5 59.3#

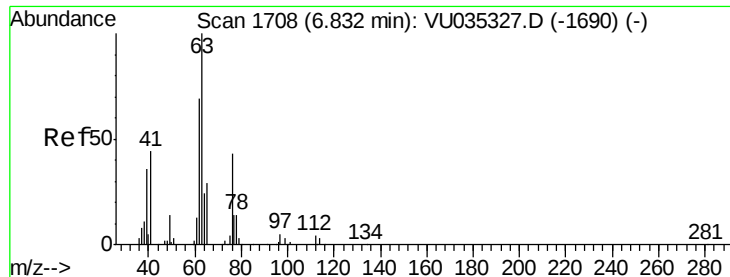


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

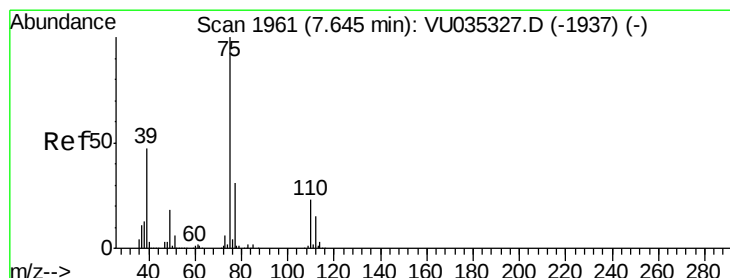
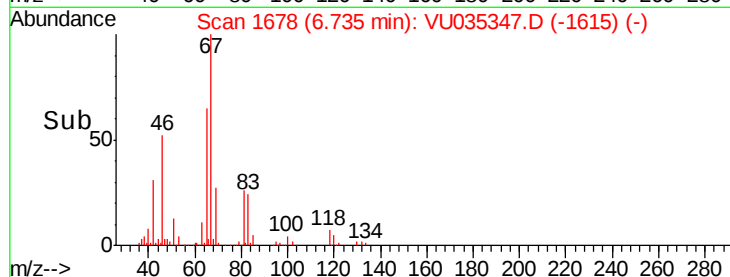
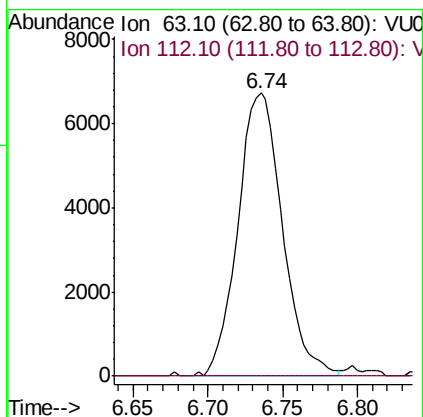
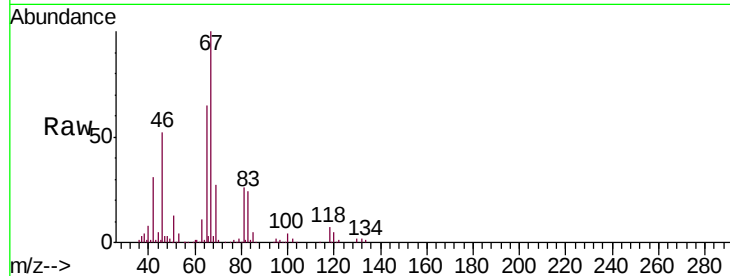




#37
 1,2-Dichloropropane
 Concen: 0.662 ug/L
 RT: 6.74 min Scan# 1678
 Delta R.T. -0.10 min
 Lab File: VU035347.D
 Acq: 22 Oct 2019 02:17

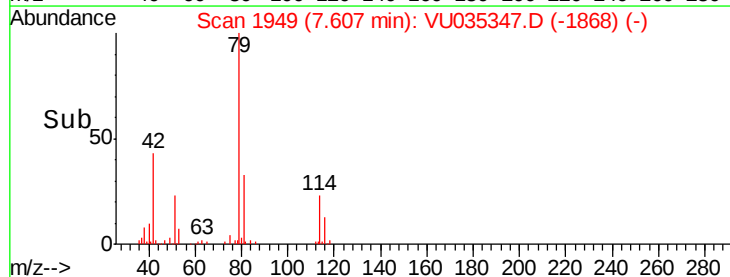
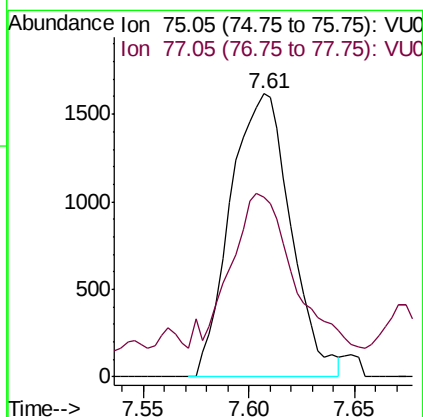
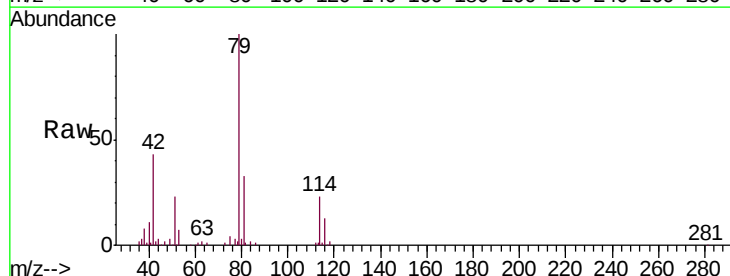
Instrument :
 MSVOA_U
 ClientSampleId :
 C0K32

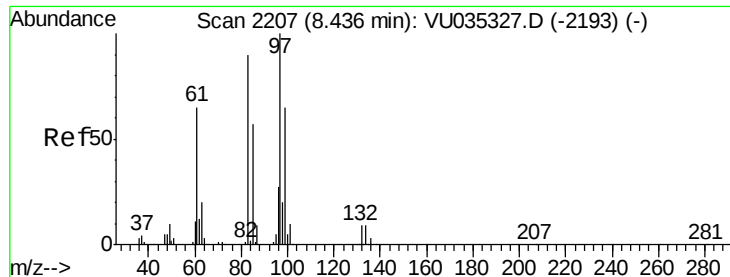
Tgt Ion: 63 Resp: 13939
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.7 5.5#



#39
 cis-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.61 min Scan# 1949
 Delta R.T. -0.04 min
 Lab File: VU035347.D
 Acq: 22 Oct 2019 02:17

Tgt Ion: 75 Resp: 3203
 Ion Ratio Lower Upper
 75 100
 77 63.6 22.7 42.1#

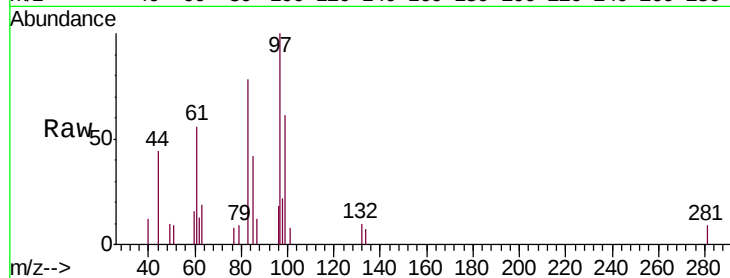




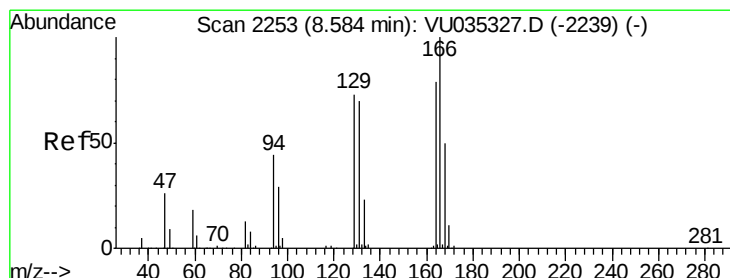
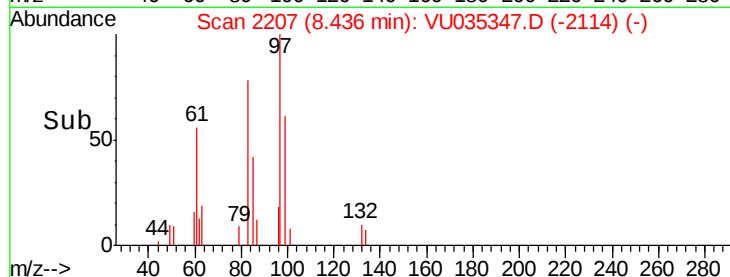
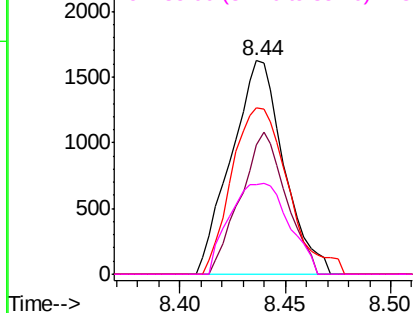
#45
 1,1,2-Trichloroethane
 Concen: 0.180 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VU035347.D
 Acq: 22 Oct 2019 02:17

Instrument :
 MSVOA_U
 ClientSampleId :
 C0K32

Tgt Ion:	97	Resp:	2813
Ion	Ratio	Lower	Upper
97	100		
99	60.7	42.9	79.7
83	77.8	60.4	112.2
85	42.2	38.4	71.2

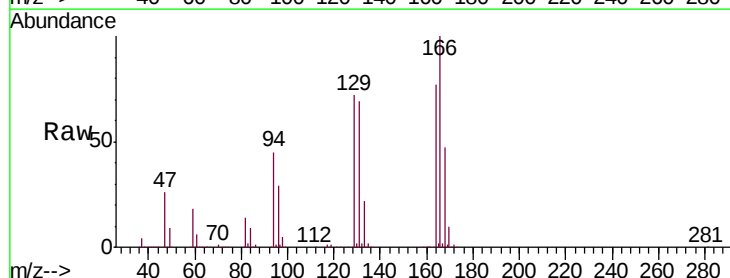


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

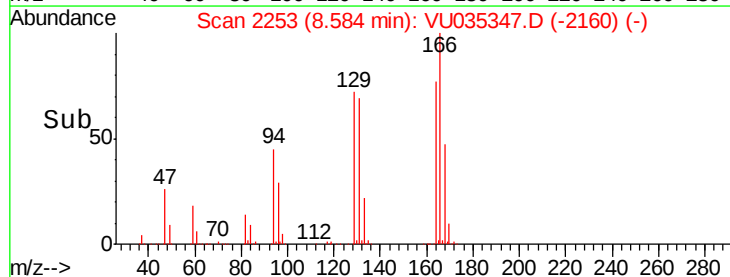
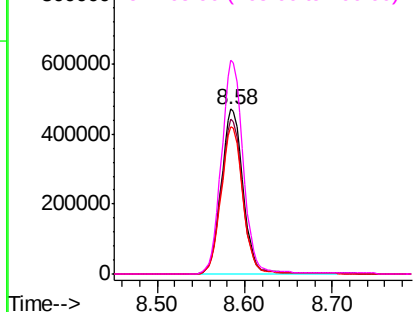


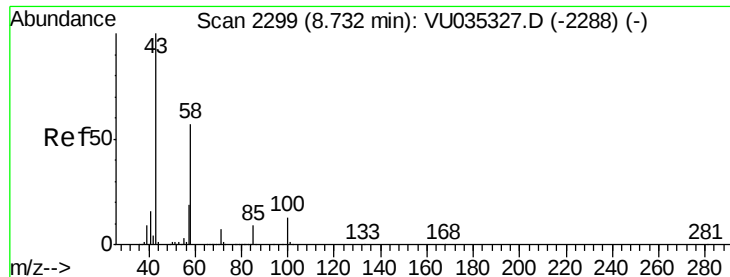
#47
 Tetrachloroethene
 Concen: 44.308 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU035347.D
 Acq: 22 Oct 2019 02:17

Tgt Ion:	164	Resp:	822989
Ion	Ratio	Lower	Upper
164	100		
129	93.5	65.2	121.0
131	89.5	62.9	116.9
166	129.4	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

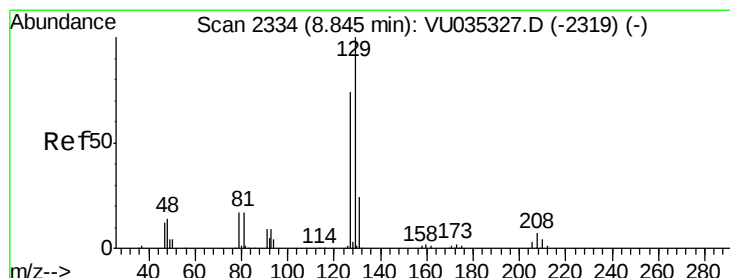
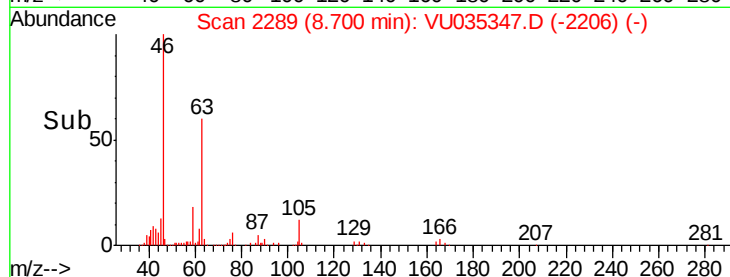
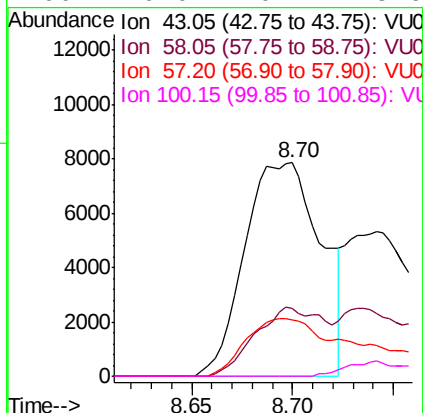
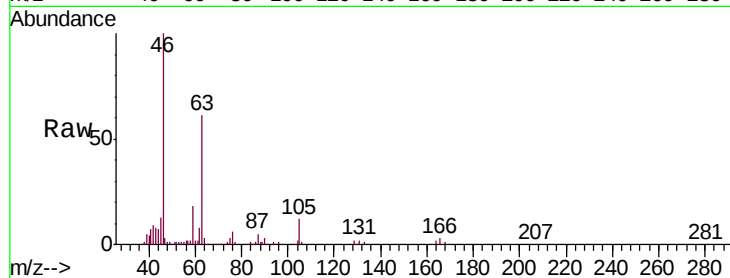




#48
2-Hexanone
Concen: 2.071 ug/L
RT: 8.70 min Scan# 2289
Delta R.T. -0.03 min
Lab File: VU035347.D
Acq: 22 Oct 2019 02:17

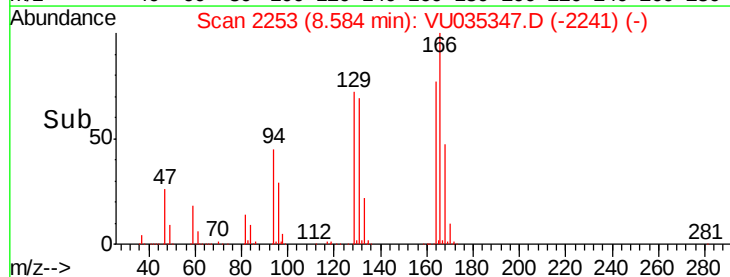
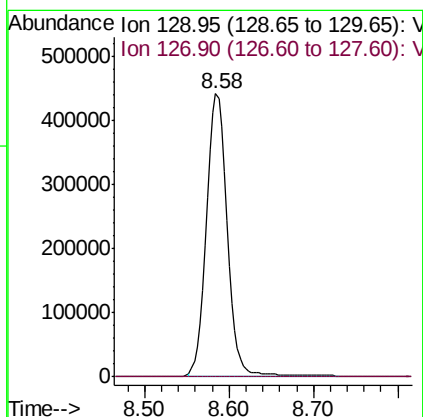
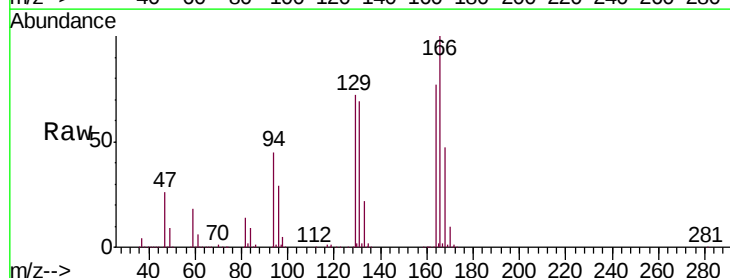
Instrument :
MSVOA_U
ClientSampleId :
C0K32

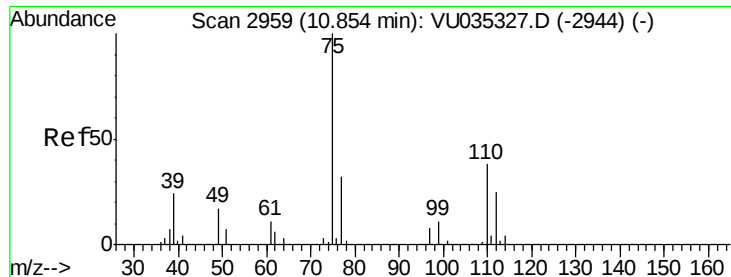
Tgt Ion: 43 Resp: 20646
Ion Ratio Lower Upper
43 100
58 28.9 45.1 67.7#
57 25.8 16.0 24.0#
100 0.0 10.4 15.6#



#49
Dibromochloromethane
Concen: 37.706 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.26 min
Lab File: VU035347.D
Acq: 22 Oct 2019 02:17

Tgt Ion: 129 Resp: 747142
Ion Ratio Lower Upper
129 100
127 0.0 53.8 99.8#





#59

1,2,3-Trichloropropane

Concen: 0.807 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035347.D

Acq: 22 Oct 2019 02:17

Instrument :

MSVOA_U

ClientSampleId :

C0K32

Tgt Ion: 75 Resp: 11843

Ion Ratio Lower Upper

75 100

77 38.8 26.2 39.2

