

Data File : VU033645.D
Acq On : 08 Aug 2019 18:10
Operator : JC/SP
Sample : K4202-03 10X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F2B03DL

Quant Time: Aug 09 07:43:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 09 07:39:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	293262	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	300396	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	138534	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	149804	45.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.50%
7) Chloroethane-d5	1.67	69	125129	44.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.30%
11) 1,1-Dichloroethene-d2	2.26	63	193377	36.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.26%
21) 2-Butanone-d5	4.15	46	216581	89.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.33%
24) Chloroform-d	4.62	84	228791	41.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.42%
26) 1,2-Dichloroethane-d4	5.29	65	153061	43.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.52%
32) Benzene-d6	5.32	84	486524	43.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.86%
36) 1,2-Dichloropropane-d6	6.31	67	154687	43.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.86%
41) Toluene-d8	7.55	98	434752	41.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.96%
43) trans-1,3-Dichloropropene-	7.83	79	71761	41.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.32%
47) 2-Hexanone-d5	8.29	63	152933	85.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.76%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	227402	40.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.62%
64) 1,2-Dichlorobenzene-d4	11.84	152	168946	44.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.28%

Target Compounds

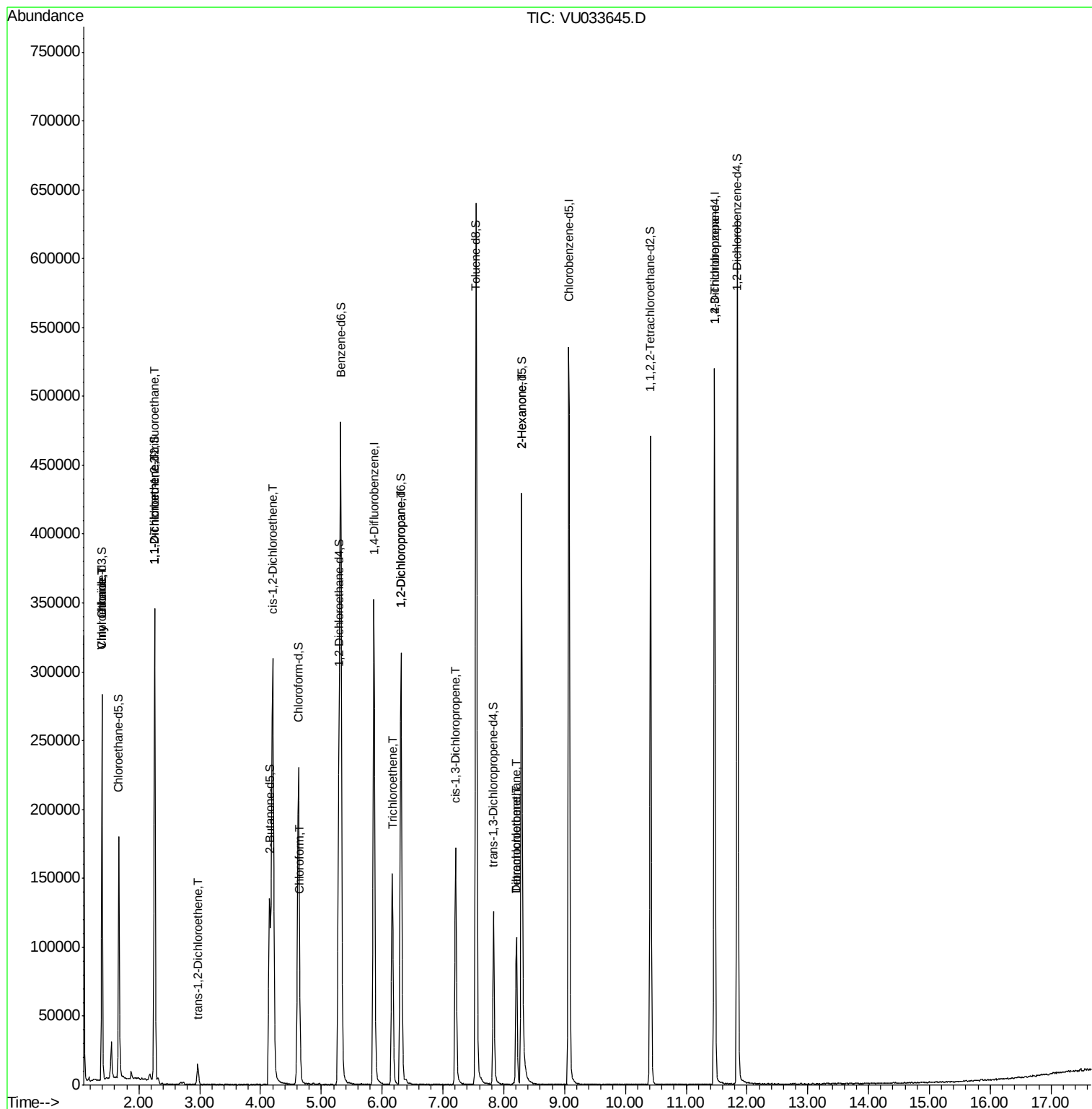
						Qvalue
5) Vinyl chloride	1.40	62	37523	11.788	ug/L	93
8) Chloroethane	1.40	64	14904	7.507	ug/L	88
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	1809	0.833	ug/L #	19
12) 1,1-Dichloroethene	2.26	96	1791	0.863	ug/L #	1
17) trans-1,2-Dichloroethene	2.97	96	5390	2.494	ug/L	94
20) cis-1,2-Dichloroethene	4.20	96	171847	70.601	ug/L	98
25) Chloroform	4.65	83	6608	1.496	ug/L	95
34) Trichloroethene	6.17	95	53525	22.005	ug/L	98
37) 1,2-Dichloropropane	6.31	63	17169	6.699	ug/L #	88
39) cis-1,3-Dichloropropene	7.21	75	4286	1.123	ug/L	84
46) Tetrachloroethene	8.21	164	24004	12.164	ug/L	98
48) 2-Hexanone	8.29	43	17964	5.860	ug/L #	69
49) Dibromochloromethane	8.21	129	23040	8.278	ug/L #	12
59) 1,2,3-Trichloropropane	11.47	75	15794	4.513	ug/L	91

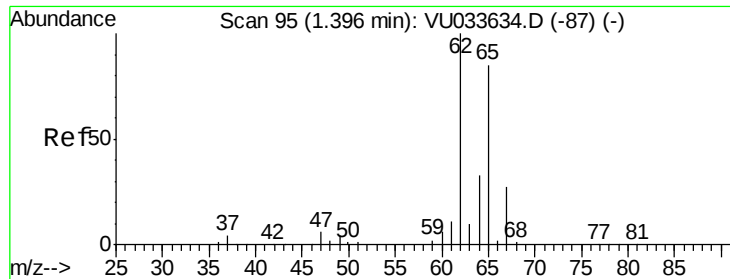
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 11.788 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

Instrument :

MSVOA_U

ClientSampleId :

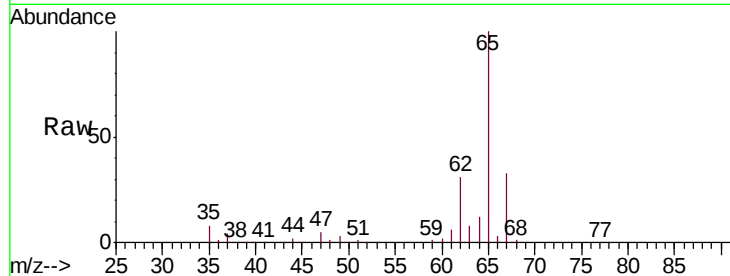
F2B03DL

Tgt Ion: 62 Resp: 37523

Ion Ratio Lower Upper

62 100

64 37.9 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

40000

30000

20000

10000

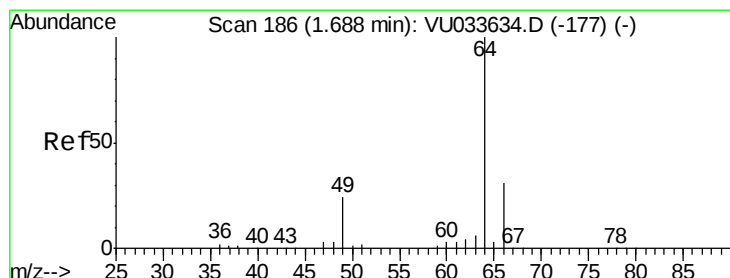
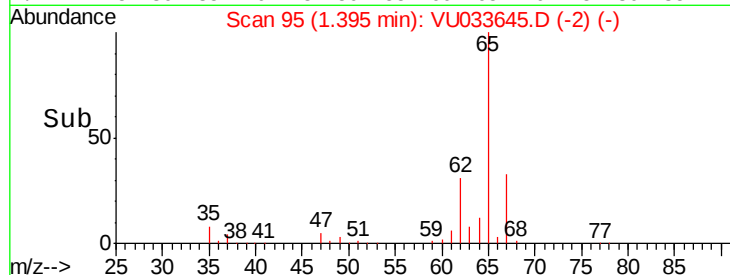
0

Time-->

1.35

1.40

1.45



#8

Chloroethane

Concen: 7.507 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.29 min

Lab File: VU033645.D

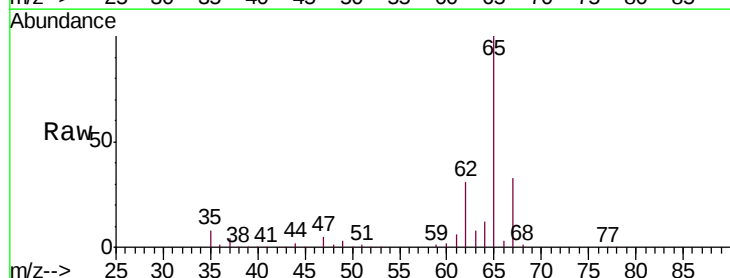
Acq: 08 Aug 2019 18:10

Tgt Ion: 64 Resp: 14904

Ion Ratio Lower Upper

64 100

66 26.1 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.40

15000

10000

5000

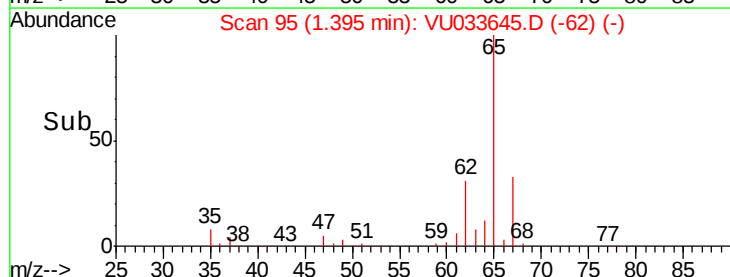
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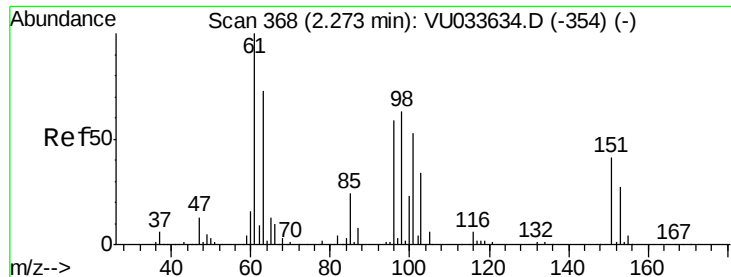
Time-->

1.35

1.40

1.45





#10

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

Concen: 0.833 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

Instrument :

MSVOA_U

ClientSampleId :

F2B03DL

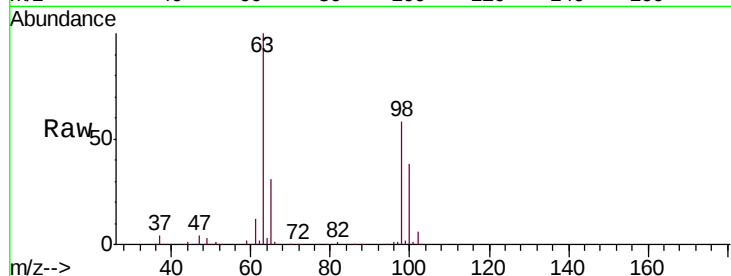
Tgt Ion: 101 Resp: 1809

Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

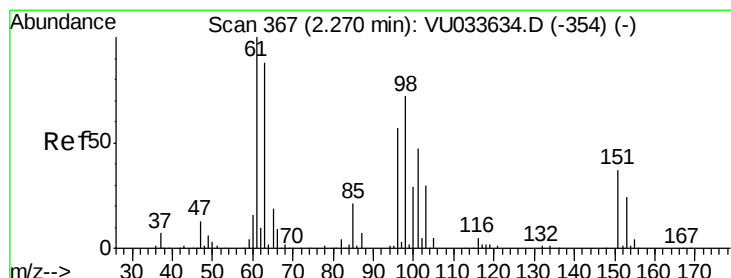
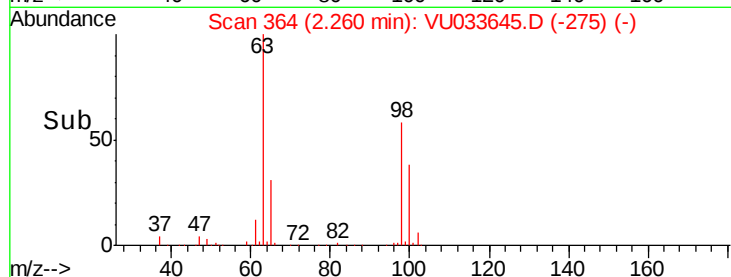
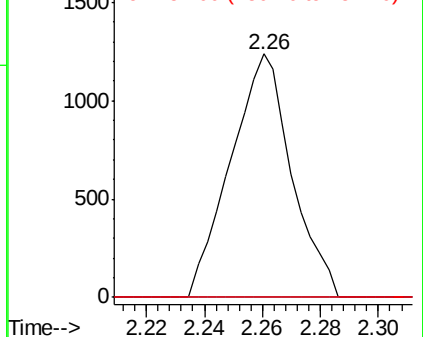
151 0.0 60.4 90.6#



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: 0.863 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

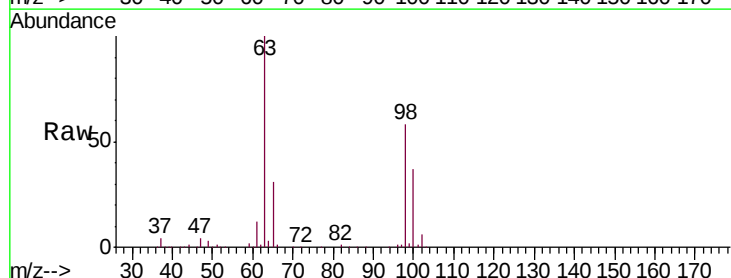
Tgt Ion: 96 Resp: 1791

Ion Ratio Lower Upper

96 100

61 1351.5 124.0 230.2#

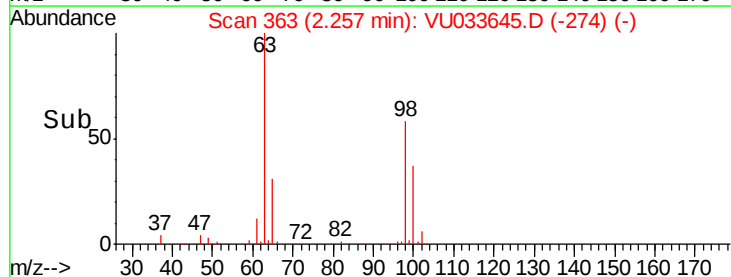
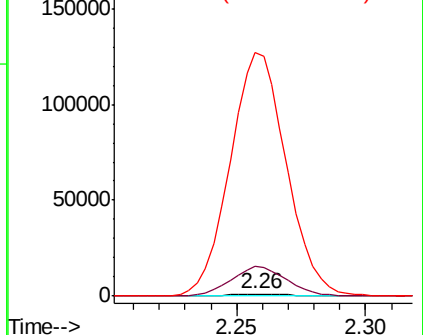
63 11241.8 114.9 213.5#

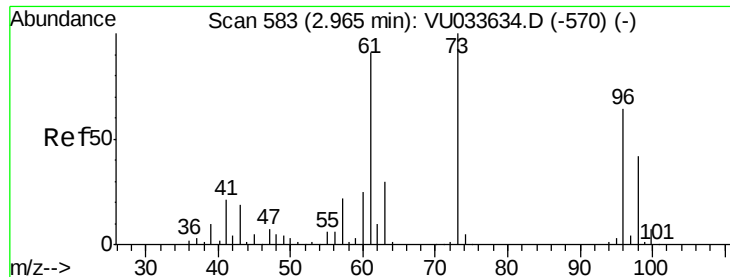


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.494 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

Instrument :

MSVOA_U

ClientSampleId :

F2B03DL

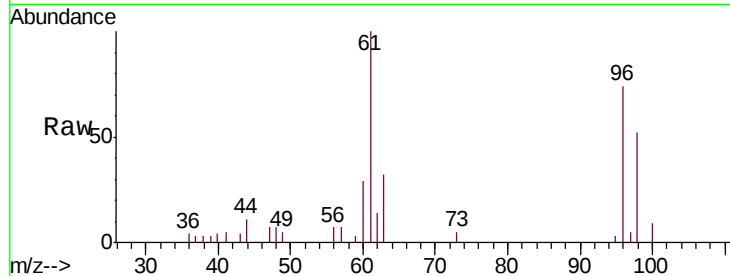
Tgt Ion: 96 Resp: 5390

Ion Ratio Lower Upper

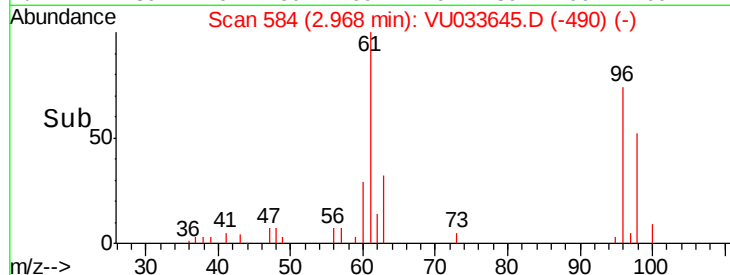
96 100

61 135.4 98.7 183.3

98 70.5 44.6 82.8



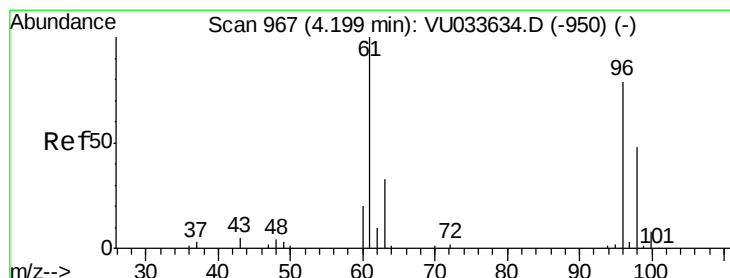
Abundance Ion 96.00 (95.70 to 96.70): VU033645.D (-490) (-)



Ion 61.00 (60.70 to 61.70): VU033645.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033645.D (-490) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 70.601 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

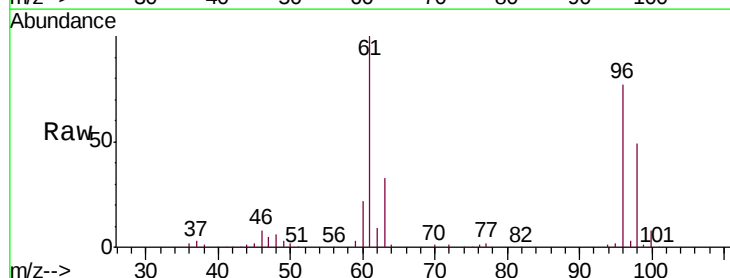
Tgt Ion: 96 Resp: 171847

Ion Ratio Lower Upper

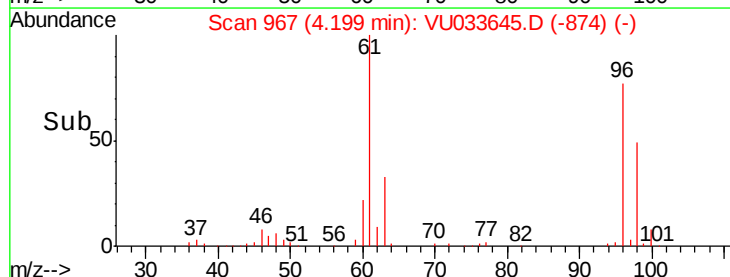
96 100

61 130.5 93.0 172.8

68 0.0 0.0 0.0



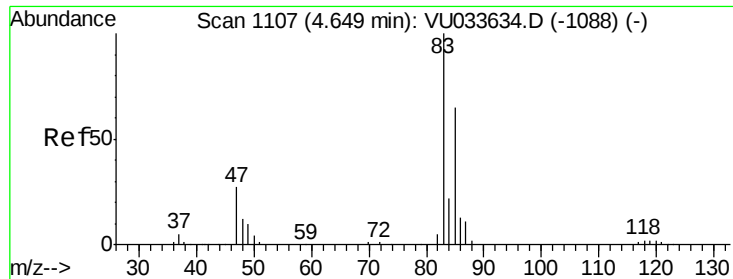
Abundance Ion 96.00 (95.70 to 96.70): VU033645.D (-874) (-)



Ion 61.00 (60.70 to 61.70): VU033645.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033645.D (-874) (-)

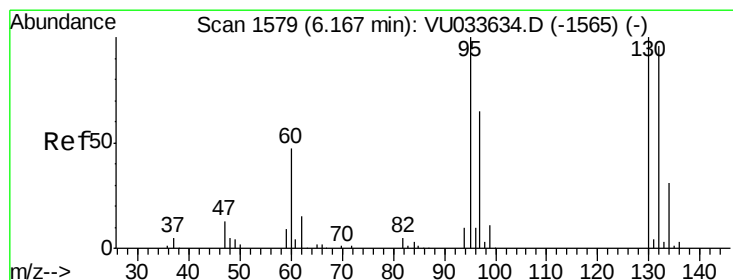
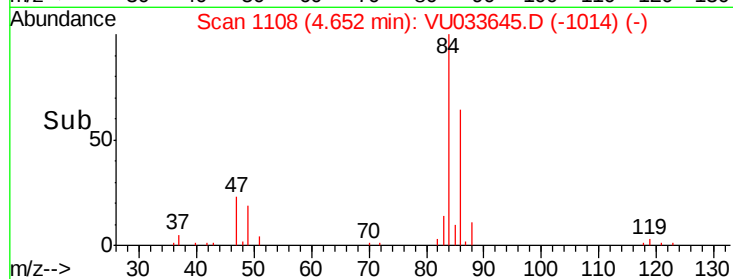
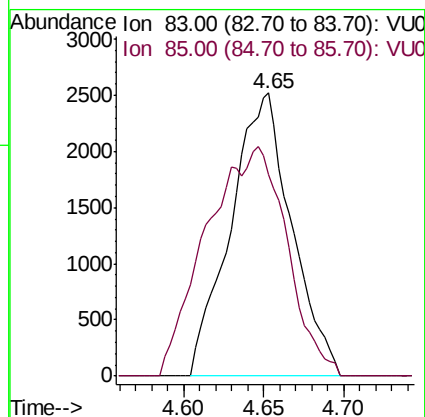
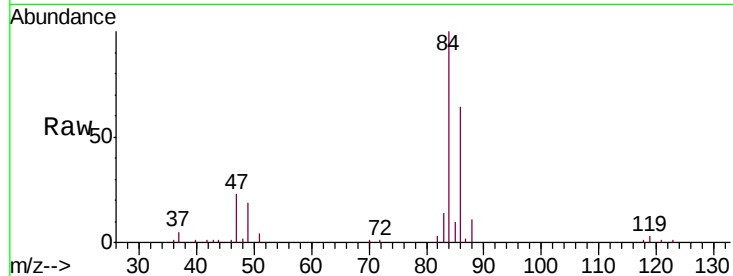
Time-->



#25
Chloroform
Concen: 1.496 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU033645.D
Acq: 08 Aug 2019 18:10

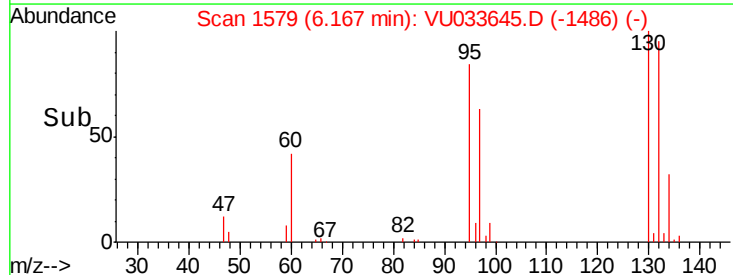
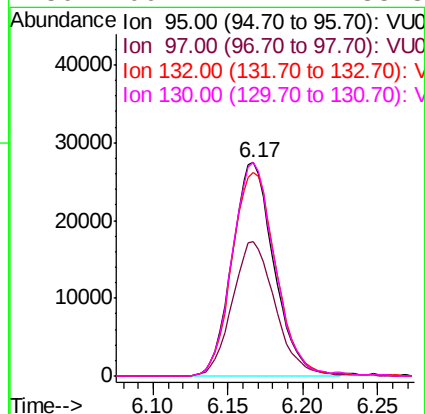
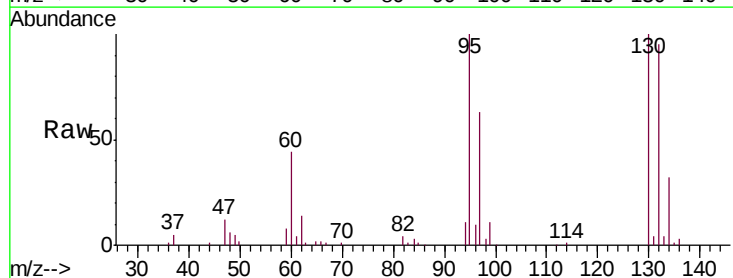
Instrument :
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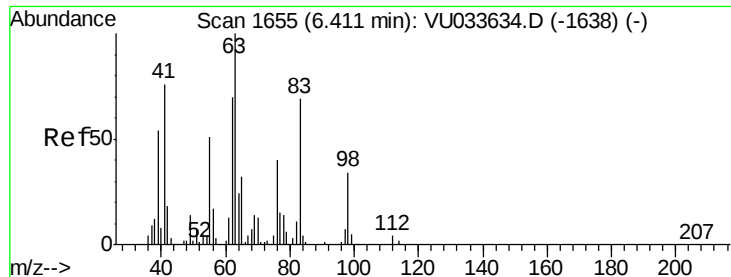
Tgt Ion: 83 Resp: 6608
Ion Ratio Lower Upper
83 100
85 71.2 47.2 87.6



#34
Trichloroethene
Concen: 22.005 ug/L
RT: 6.17 min Scan# 1579
Delta R.T. -0.00 min
Lab File: VU033645.D
Acq: 08 Aug 2019 18:10

Tgt Ion: 95 Resp: 53525
Ion Ratio Lower Upper
95 100
97 63.2 44.4 82.5
132 95.2 69.1 128.3
130 100.1 71.7 133.3





#37

1,2-Dichloropropane

Concen: 6.699 ug/L

RT: 6.31 min Scan# 1623

Delta R.T. -0.10 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

Instrument :

MSVOA_U

ClientSampleId :

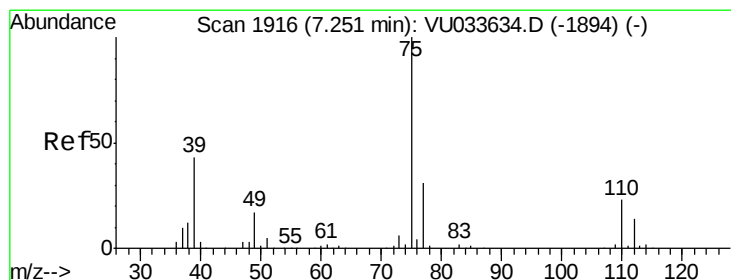
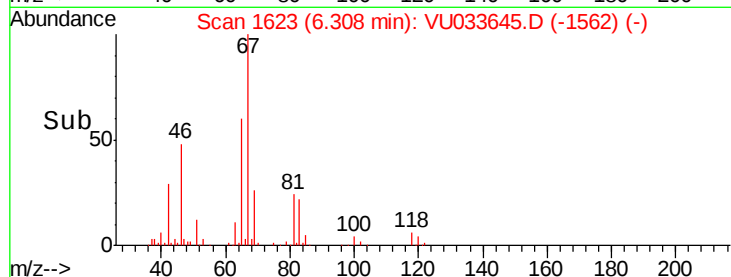
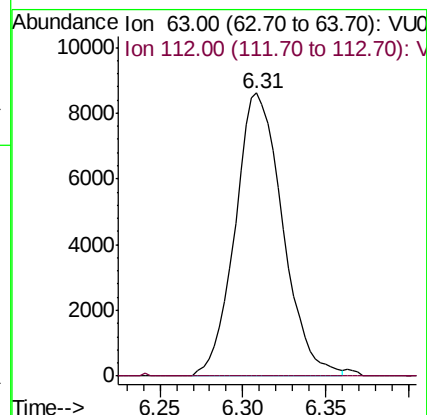
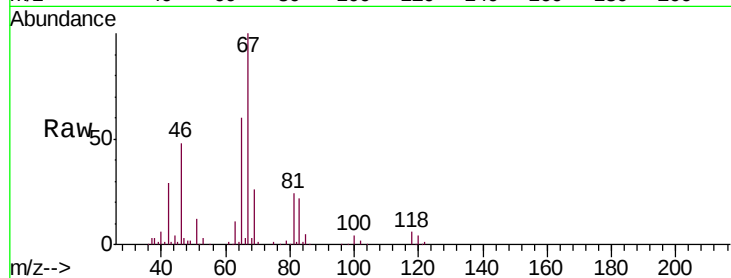
F2B03DL

Tgt Ion: 63 Resp: 17169

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.6#



#39

cis-1,3-Dichloropropene

Concen: 1.123 ug/L

RT: 7.21 min Scan# 1903

Delta R.T. -0.04 min

Lab File: VU033645.D

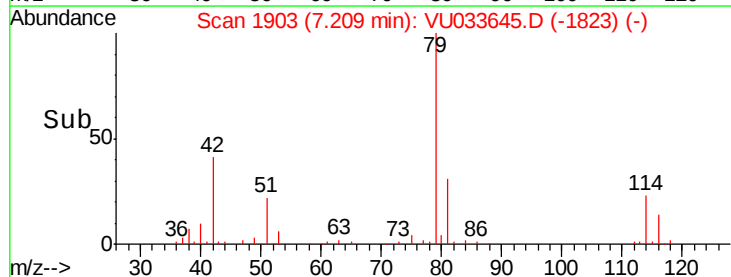
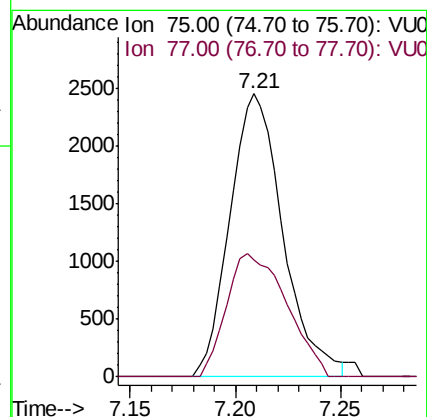
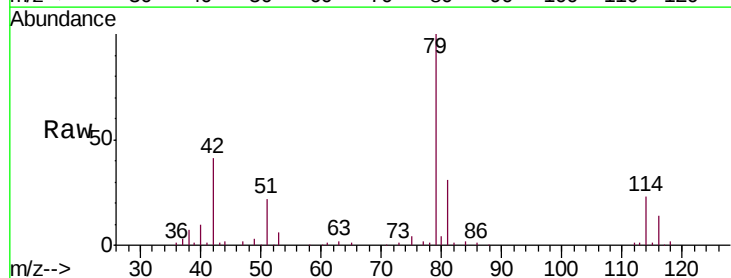
Acq: 08 Aug 2019 18:10

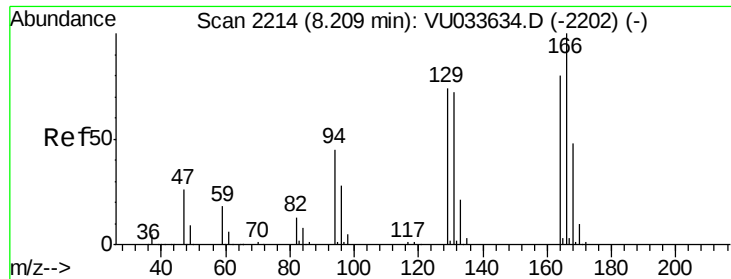
Tgt Ion: 75 Resp: 4286

Ion Ratio Lower Upper

75 100

77 41.4 22.5 41.9

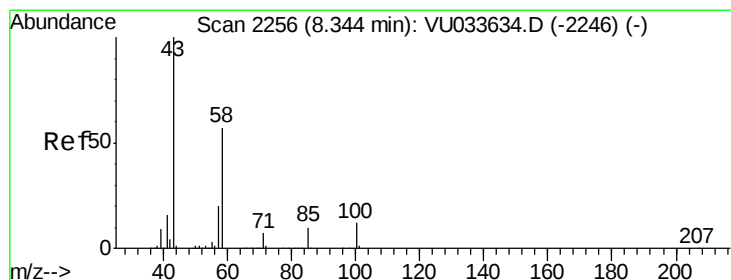
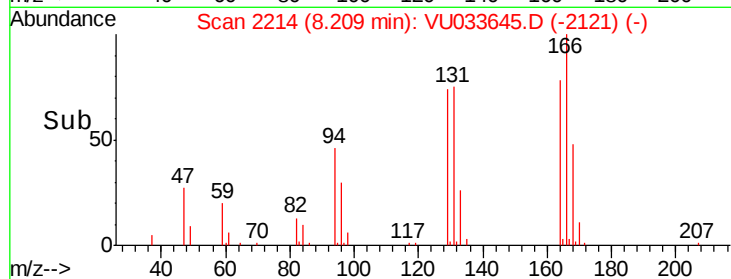
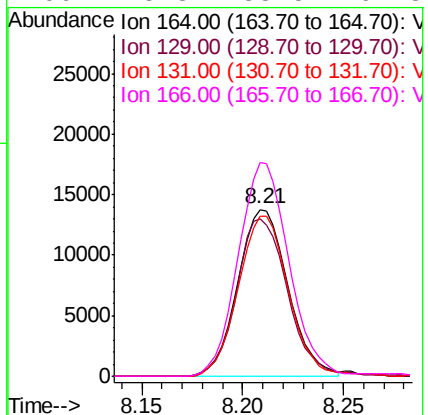
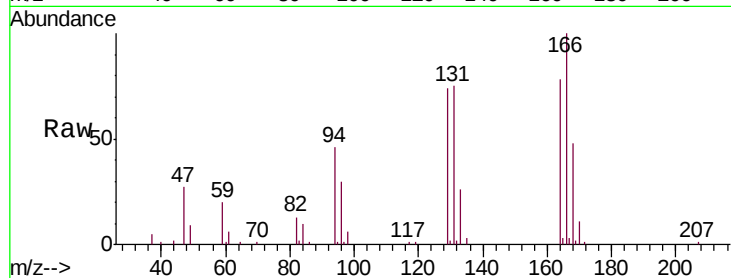




#46
Tetrachloroethene
Concen: 12.164 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033645.D
Acq: 08 Aug 2019 18:10

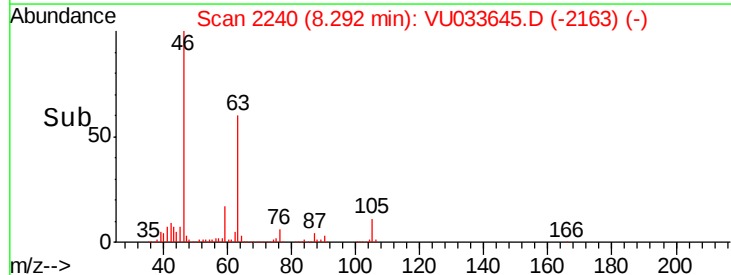
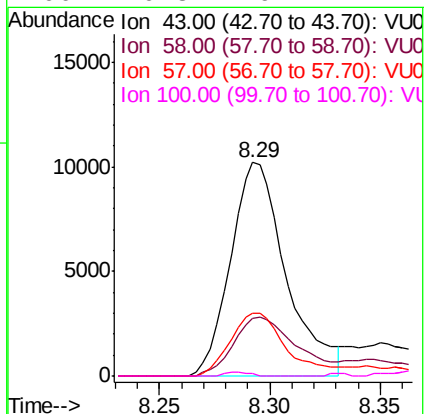
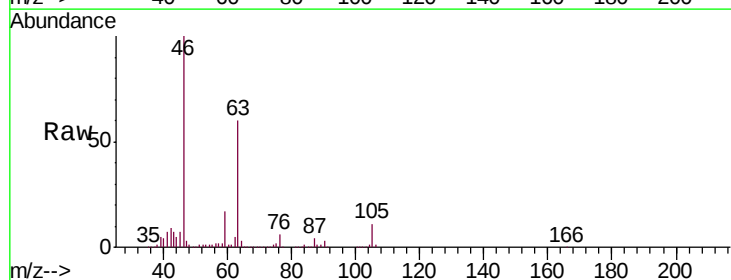
Instrument :
MSVOA_U
ClientSampleId :
F2B03DL

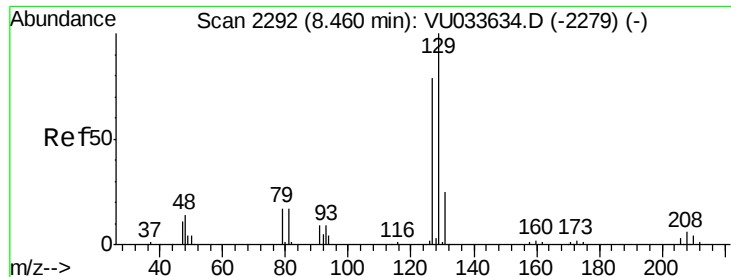
Tgt Ion:	164	Resp:	24004
Ion	Ratio	Lower	Upper
164	100		
129	94.4	68.1	126.5
131	95.8	65.5	121.6
166	128.3	88.5	164.3



#48
2-Hexanone
Concen: 5.860 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU033645.D
Acq: 08 Aug 2019 18:10

Tgt Ion:	43	Resp:	17964
Ion	Ratio	Lower	Upper
43	100		
58	31.2	44.8	67.2#
57	30.4	15.5	23.3#
100	0.8	9.4	14.2#





#49

Dibromochloromethane

Concen: 8.278 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.25 min

Lab File: VU033645.D

Acq: 08 Aug 2019 18:10

Instrument :

MSVOA_U

ClientSampleId :

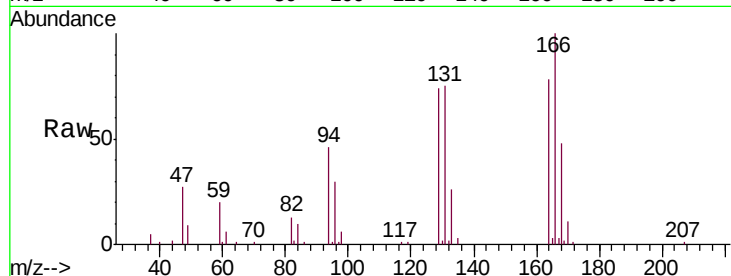
F2B03DL

Tgt Ion:129 Resp: 23040

Ion Ratio Lower Upper

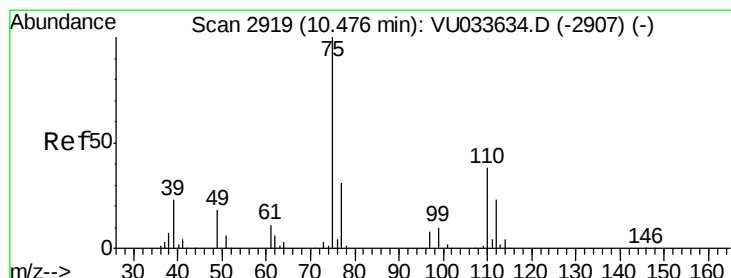
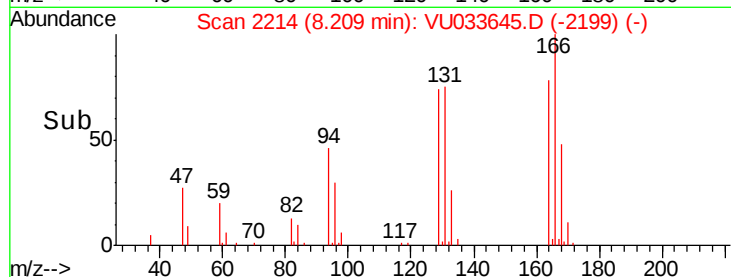
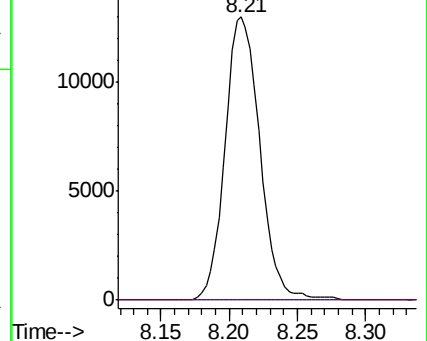
129 100

127 0.0 52.5 97.5#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 4.513 ug/L

RT: 11.47 min Scan# 3227

Delta R.T. 0.99 min

Lab File: VU033645.D

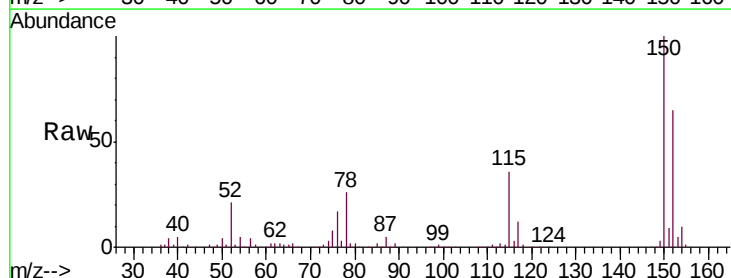
Acq: 08 Aug 2019 18:10

Tgt Ion: 75 Resp: 15794

Ion Ratio Lower Upper

75 100

77 36.8 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

