

Data File : VU034739.D
Acq On : 23 Sep 2019 17:24
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

Quant Time: Sep 24 01:57:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 01:52:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	480399	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	451173	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	229888	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	207962	42.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.58%
7) Chloroethane-d5	1.67	69	166593	43.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.66%
11) 1,1-Dichloroethene-d2	2.26	63	382522	45.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.86%
21) 2-Butanone-d5	4.15	46	401204	106.44	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.44%
24) Chloroform-d	4.62	84	352724	49.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.66%
26) 1,2-Dichloroethane-d4	5.29	65	259905	49.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.90%
32) Benzene-d6	5.32	84	711028	50.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.70%
36) 1,2-Dichloropropane-d6	6.31	67	251336	51.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.84%
41) Toluene-d8	7.54	98	682949	51.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.66%
43) trans-1,3-Dichloropropene-	7.83	79	120966	51.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.34%
47) 2-Hexanone-d5	8.29	63	265061	107.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.97%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	343390	50.63	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.26%
64) 1,2-Dichlorobenzene-d4	11.84	152	245323	50.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.78%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	240923	48.658 ug/L	98
3) Chloromethane	1.32	50	284373	47.948 ug/L	98
5) Vinyl chloride	1.40	62	260368	48.066 ug/L	99
6) Bromomethane	1.62	94	141726	47.905 ug/L	94
8) Chloroethane	1.69	64	152367	48.860 ug/L	97
9) Trichlorofluoromethane	1.87	101	325386	47.640 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	166745	50.917 ug/L	98
12) 1,1-Dichloroethene	2.27	96	155803	49.570 ug/L	86
13) Acetone	2.31	43	320534	73.105 ug/L	100
14) Carbon disulfide	2.46	76	510485	48.136 ug/L	98
15) Methyl Acetate	2.60	43	298648	50.991 ug/L	100
16) Methylene chloride	2.68	84	194193	48.775 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	174392	50.748 ug/L	90
18) Methyl tert-butyl Ether	2.98	73	637739	50.023 ug/L	99
19) 1,1-Dichloroethane	3.42	63	390049	49.478 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	200884	49.995 ug/L	96
22) 2-Butanone	4.24	43	456425	87.501 ug/L	100

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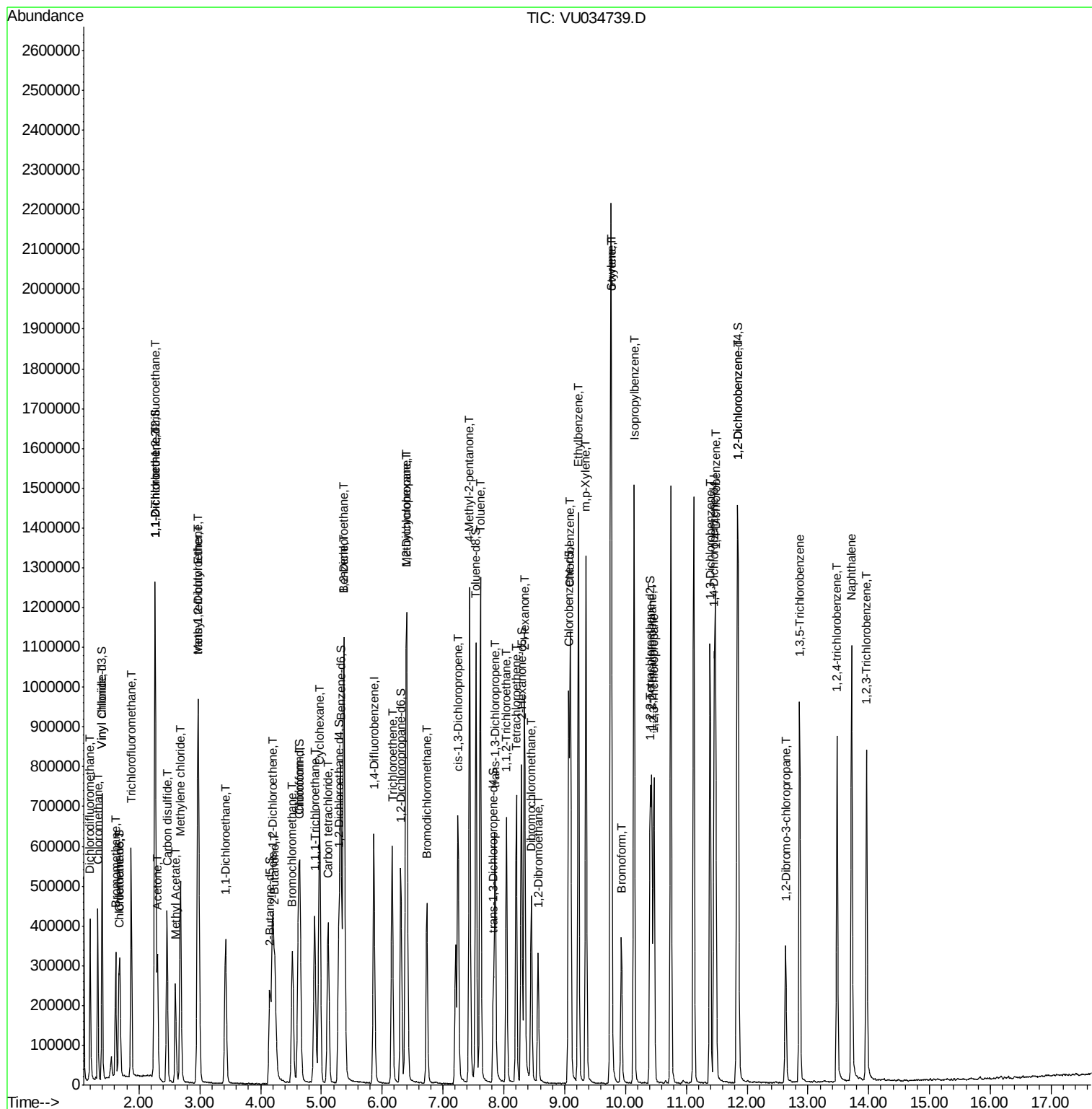
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	98376	51.152	ug/L	96
25) Chloroform	4.65	83	381645	49.163	ug/L	97
27) 1,2-Dichloroethane	5.38	62	331985	49.507	ug/L	99
29) Cyclohexane	4.97	56	364346	48.926	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	307961	50.152	ug/L	98
31) Carbon tetrachloride	5.11	117	265034	50.642	ug/L	97
33) Benzene	5.37	78	796423	50.897	ug/L	100
34) Trichloroethene	6.16	95	197893	51.208	ug/L	96
35) Methylcyclohexane	6.39	83	319324	48.692	ug/L	98
37) 1,2-Dichloropropane	6.41	63	235796	50.607	ug/L	99
38) Bromodichloromethane	6.73	83	279387	49.445	ug/L	95
39) cis-1,3-Dichloropropene	7.25	75	362613	51.795	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	895790	100.702	ug/L	98
42) Toluene	7.61	91	865302	51.168	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	315907	50.055	ug/L	98
45) 1,1,2-Trichloroethane	8.04	97	191077	51.198	ug/L	97
46) Tetrachloroethene	8.21	164	141415	52.023	ug/L	97
48) 2-Hexanone	8.34	43	683906	98.439	ug/L	99
49) Dibromochloromethane	8.45	129	213491	51.320	ug/L	98
50) 1,2-Dibromoethane	8.56	107	210212	52.261	ug/L	98
51) Chlorobenzene	9.10	112	518532	50.441	ug/L	99
52) Ethylbenzene	9.22	91	958329	50.324	ug/L	99
53) m,p-Xylene	9.35	106	344827	51.123	ug/L	96
54) o-xylene	9.76	106	336755	50.478	ug/L	98
55) Styrene	9.77	104	582441	51.577	ug/L	97
56) Isopropylbenzene	10.14	105	906794	50.410	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	356136	49.682	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	285944	49.136	ug/L	98
61) Bromoform	9.94	173	156597	49.475	ug/L	98
62) 1,3-Dichlorobenzene	11.39	146	399682	50.204	ug/L	97
63) 1,4-Dichlorobenzene	11.48	146	397758	49.046	ug/L	98
65) 1,2-Dichlorobenzene	11.85	146	408306	50.759	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.63	75	83941	49.094	ug/L	92
67) 1,3,5-Trichlorobenzene	12.86	180	267886	50.221	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	244744	58.346	ug/L	99
69) Naphthalene	13.72	128	826680	56.929	ug/L	99
70) 1,2,3-Trichlorobenzene	13.96	180	237364	54.994	ug/L	96

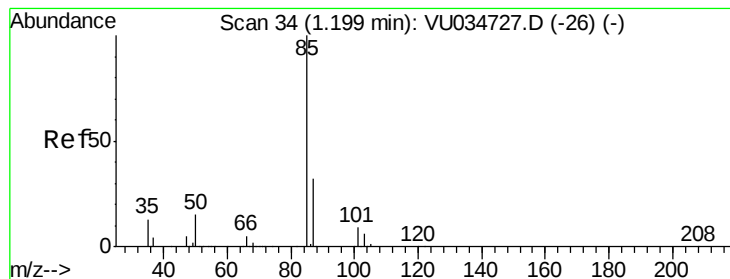
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.658 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

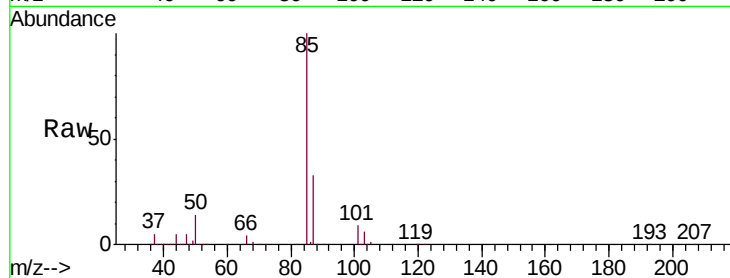
VSTD05041

Tgt Ion: 85 Resp: 240923

Ion Ratio Lower Upper

85 100

87 32.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU034727.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034727.D (-26) (-)

1.20

200000

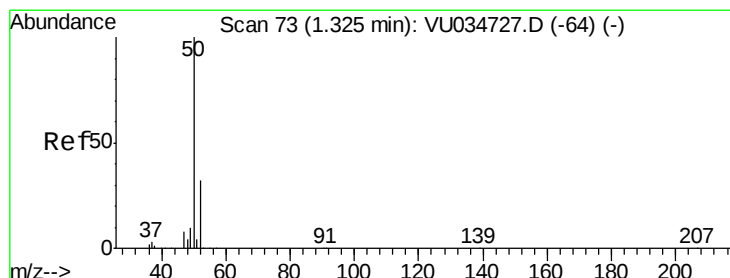
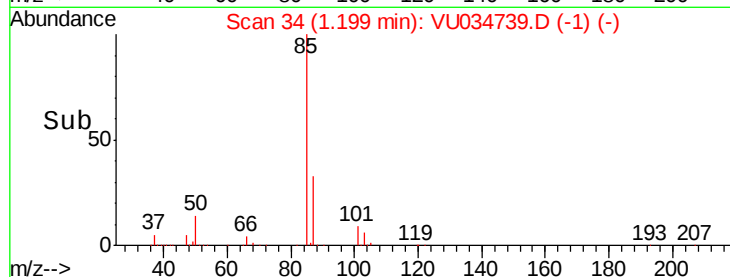
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.948 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034739.D

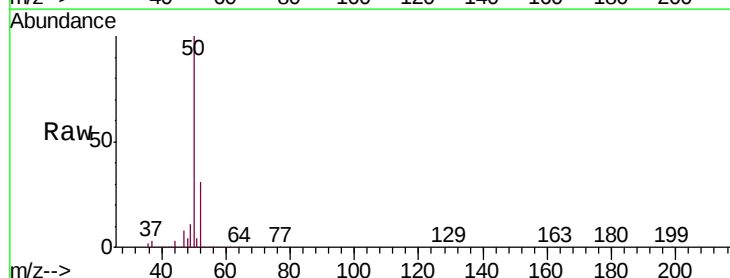
Acq: 23 Sep 2019 17:24

Tgt Ion: 50 Resp: 284373

Ion Ratio Lower Upper

50 100

52 31.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU034727.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU034727.D (-64) (-)

1.32

300000

250000

200000

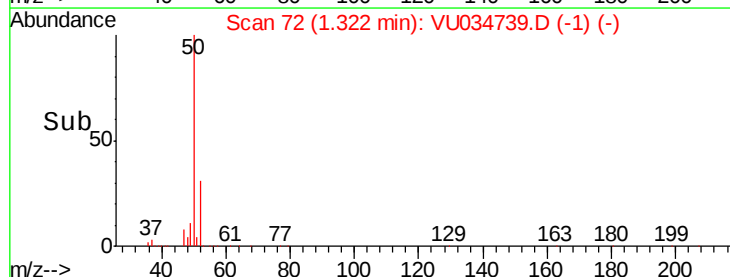
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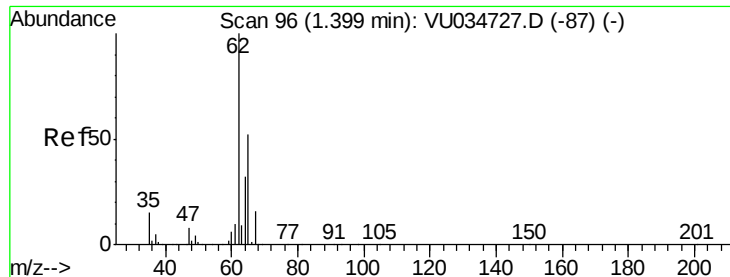
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 48.066 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

Instrument :

MSVOA_U

ClientSampled :

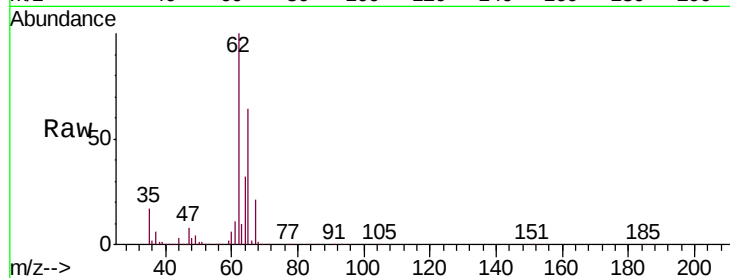
VSTD05041

Tgt Ion: 62 Resp: 260368

Ion Ratio Lower Upper

62 100

64 32.1 22.2 41.2



Abundance Ion 62.00 (61.70 to 62.70): VU034727.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU034727.D (-87) (-)

1.40

250000

200000

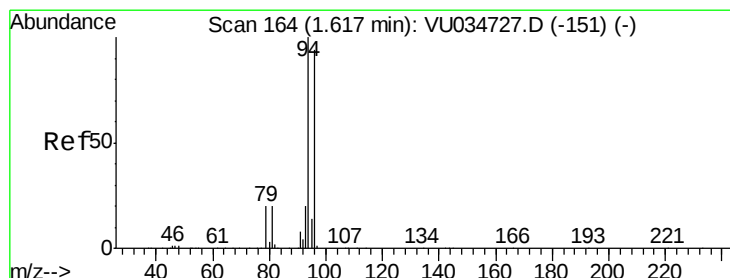
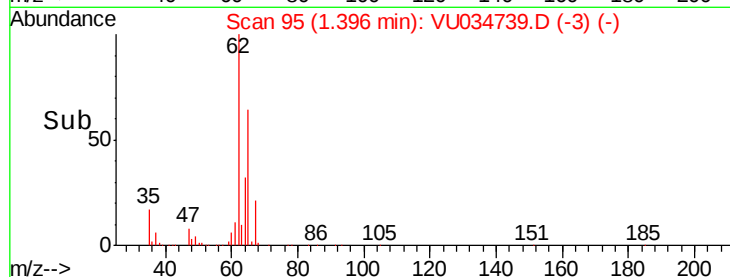
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 47.905 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU034739.D

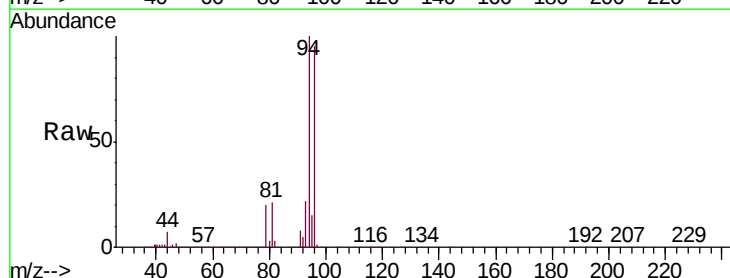
Acq: 23 Sep 2019 17:24

Tgt Ion: 94 Resp: 141726

Ion Ratio Lower Upper

94 100

96 95.3 62.8 116.6



Abundance Ion 94.00 (93.70 to 94.70): VU034727.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU034727.D (-151) (-)

1.62

120000

100000

80000

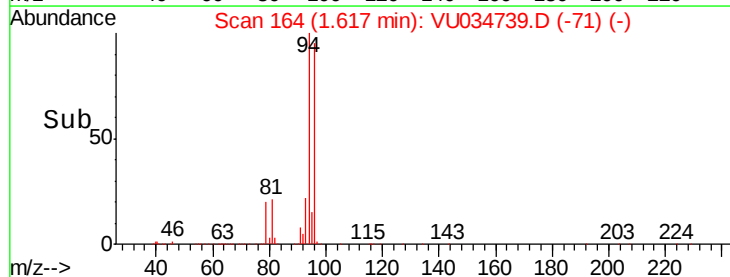
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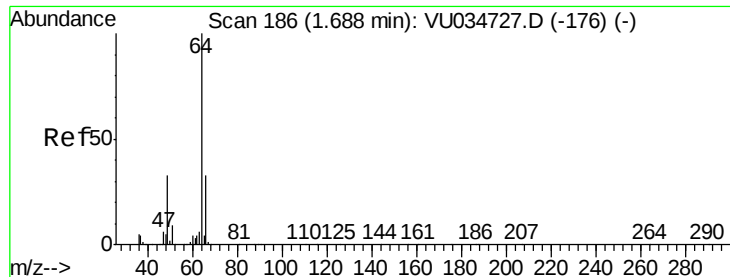
40000

20000

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Time-->





#8

Chloroethane

Concen: 48.860 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

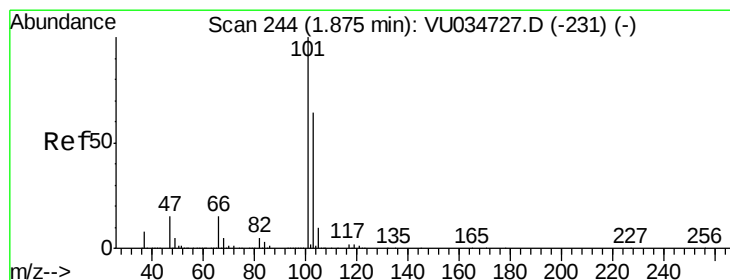
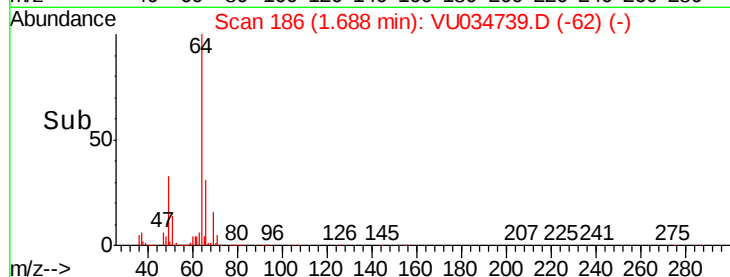
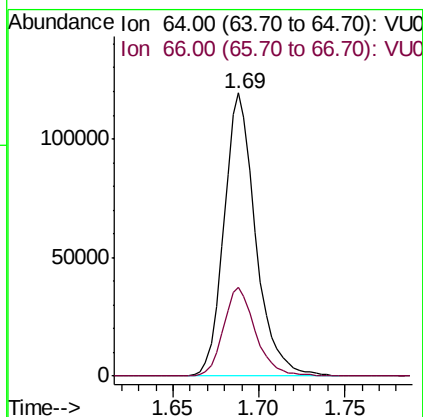
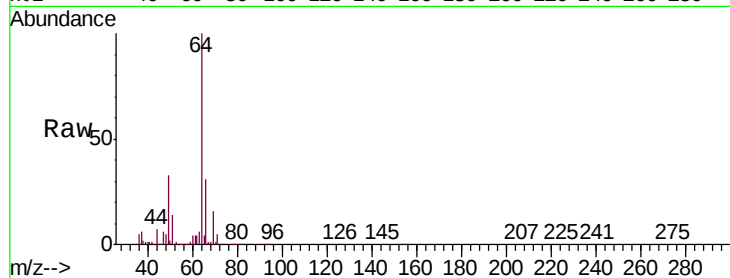
VSTD05041

Tgt Ion: 64 Resp: 152367

Ion Ratio Lower Upper

64 100

66 31.3 23.1 42.9



#9

Trichlorofluoromethane

Concen: 47.640 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034739.D

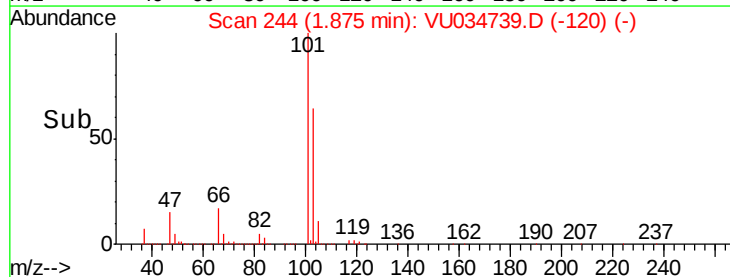
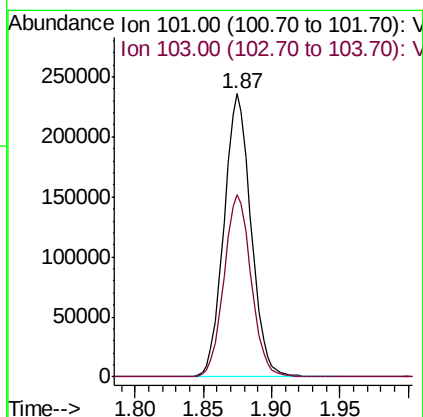
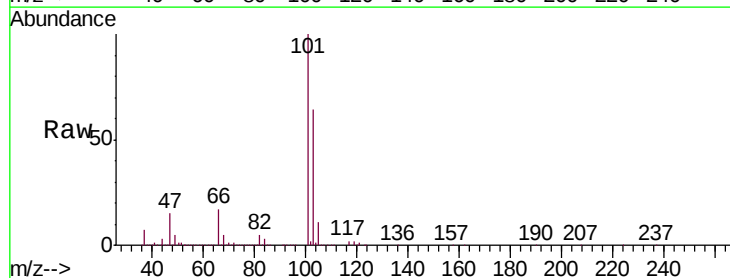
Acq: 23 Sep 2019 17:24

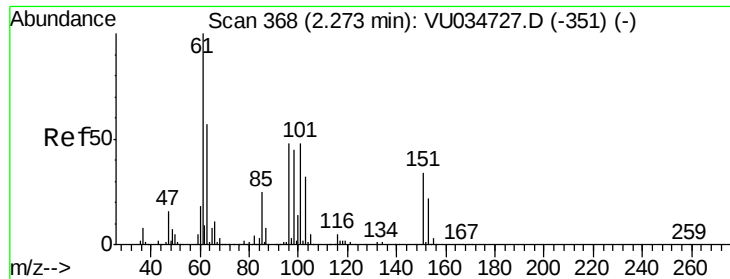
Tgt Ion: 101 Resp: 325386

Ion Ratio Lower Upper

101 100

103 64.8 51.8 77.8





#10

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

Concen: 50.917 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

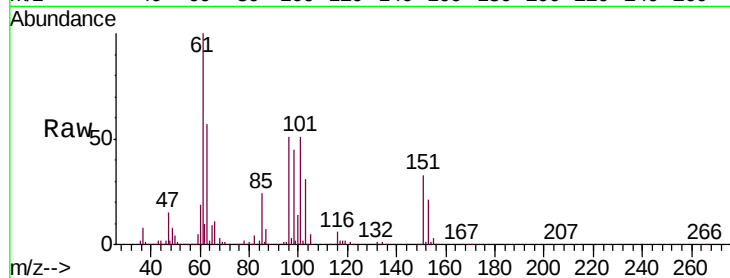
Tgt Ion: 101 Resp: 166745

Ion Ratio Lower Upper

101 100

85 46.7 39.0 58.4

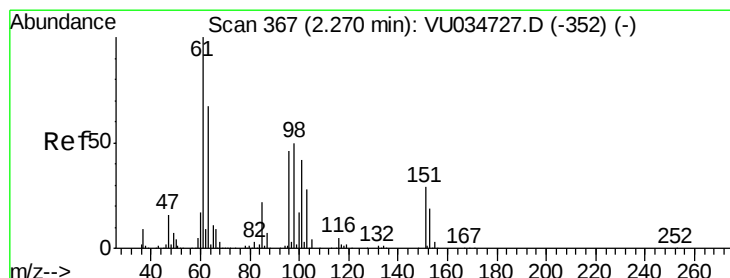
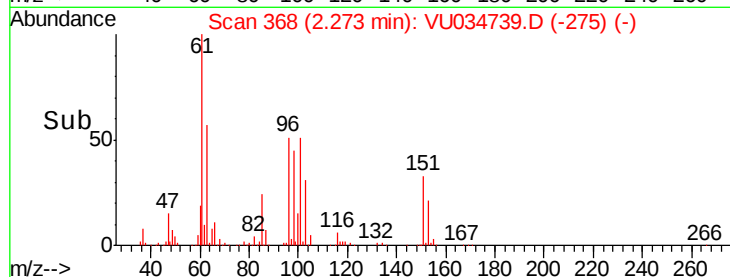
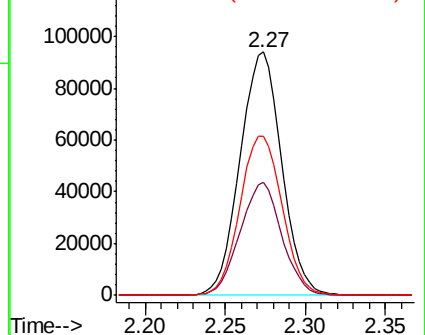
151 66.7 52.8 79.2



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: 49.570 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

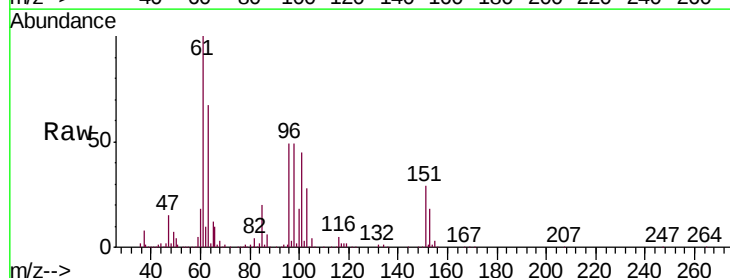
Tgt Ion: 96 Resp: 155803

Ion Ratio Lower Upper

96 100

61 203.2 153.2 284.4

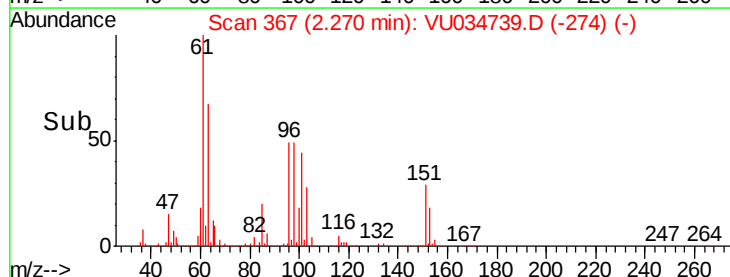
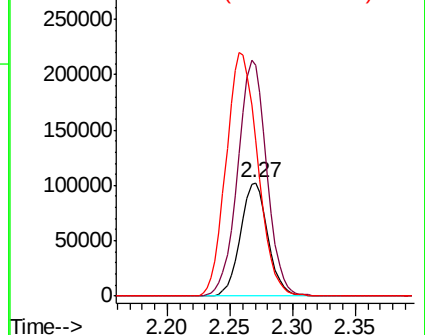
63 136.9 113.8 211.3

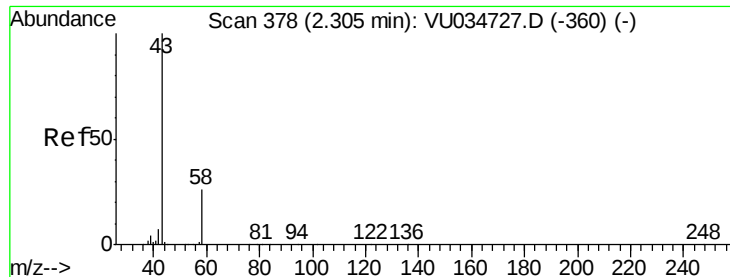


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 73.105 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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ClientSampleId :

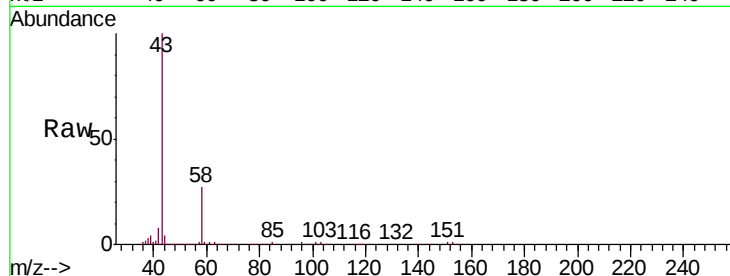
VSTD05041

Tgt Ion: 43 Resp: 320534

Ion Ratio Lower Upper

43 100

58 26.8 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034727.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU034727.D (-360) (-)

2.31

200000

150000

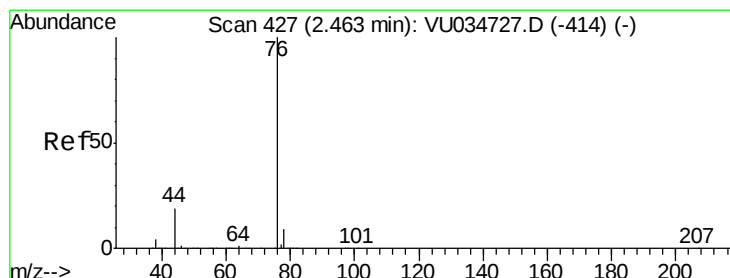
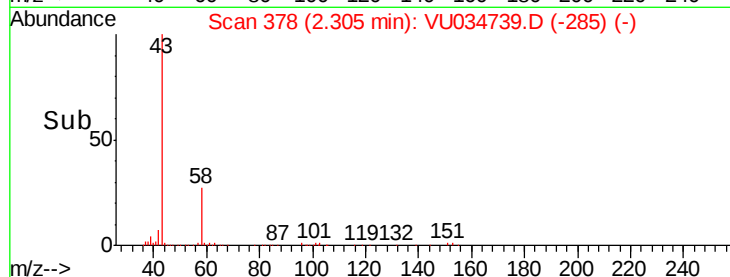
100000

50000

0

Time-->

2.20 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 48.136 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034739.D

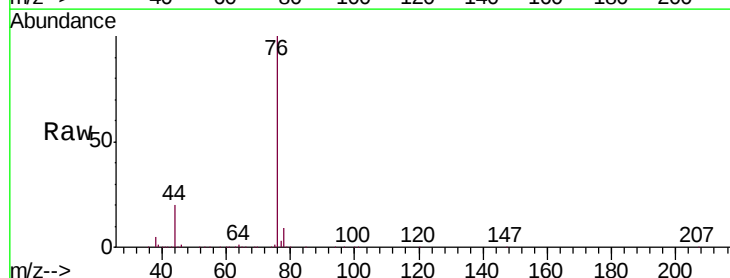
Acq: 23 Sep 2019 17:24

Tgt Ion: 76 Resp: 510485

Ion Ratio Lower Upper

76 100

78 9.2 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VU034727.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU034727.D (-414) (-)

2.46

300000

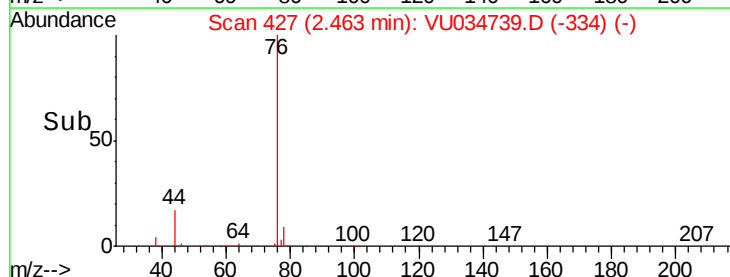
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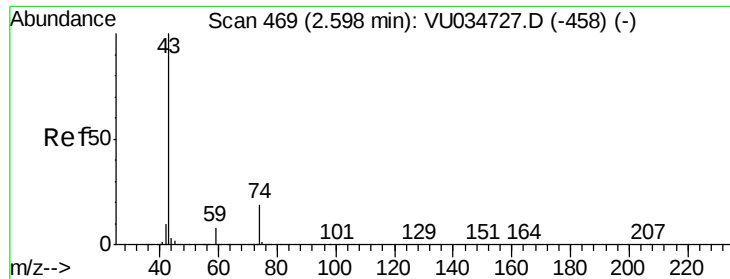
100000

0

Time-->

2.40 2.45 2.50 2.60

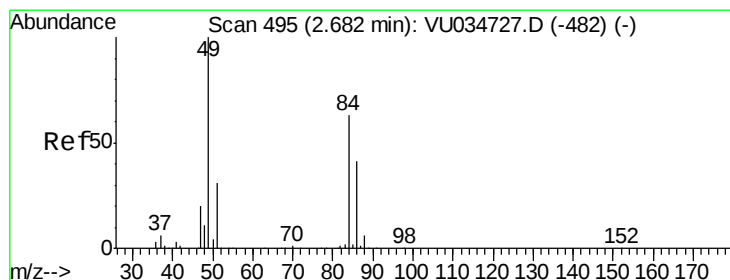
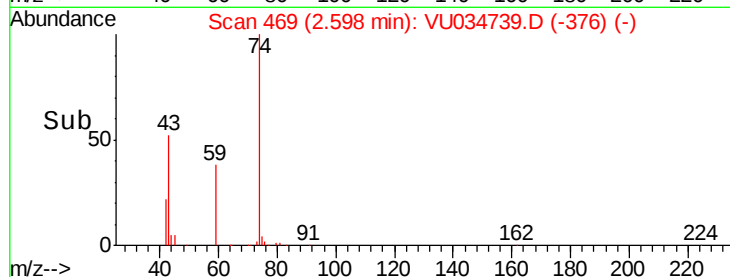
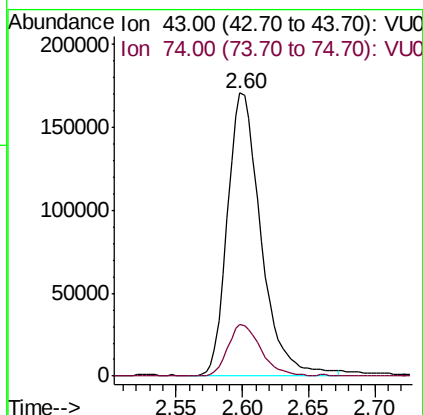
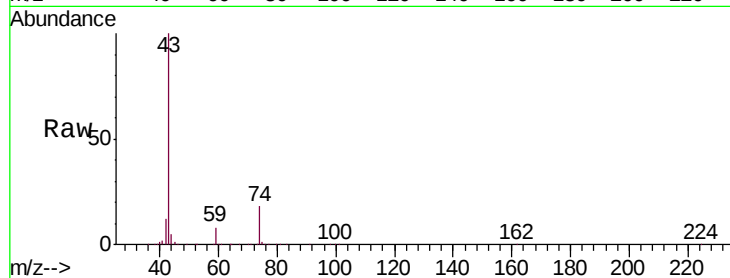




#15
Methyl Acetate
Concen: 50.991 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU034739.D
Acq: 23 Sep 2019 17:24

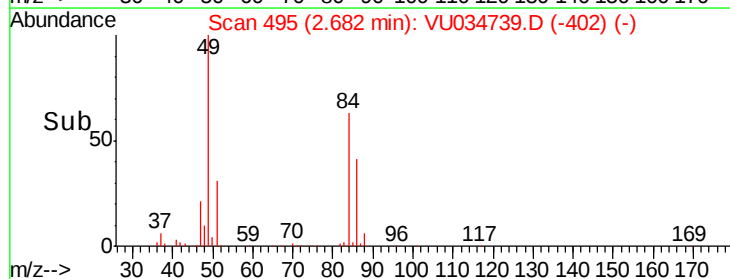
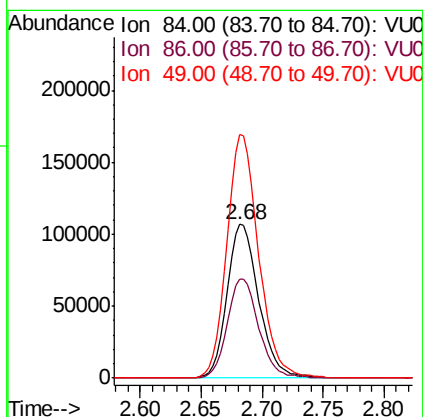
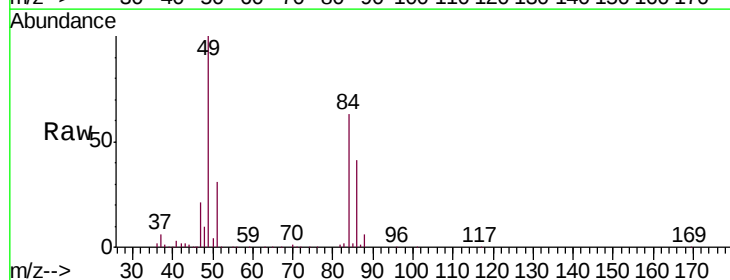
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

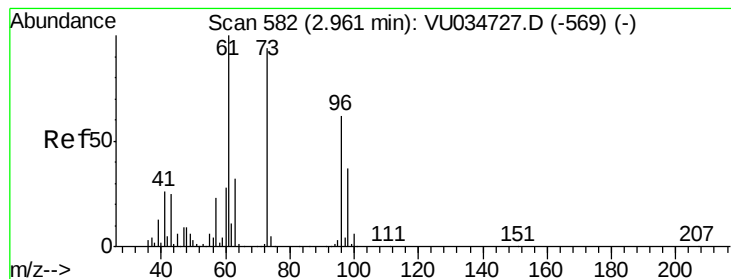
Tgt Ion: 43 Resp: 298648
Ion Ratio Lower Upper
43 100
74 18.1 14.4 21.6



#16
Methylene chloride
Concen: 48.775 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU034739.D
Acq: 23 Sep 2019 17:24

Tgt Ion: 84 Resp: 194193
Ion Ratio Lower Upper
84 100
86 64.5 43.0 80.0
49 158.2 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 50.748 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

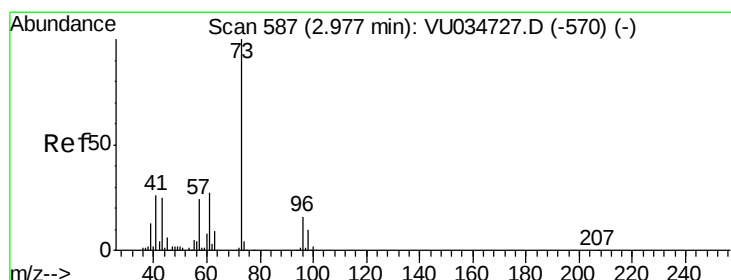
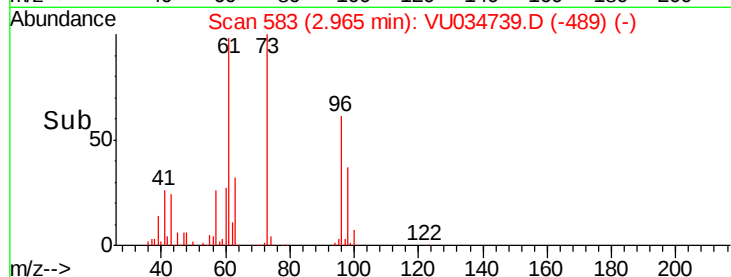
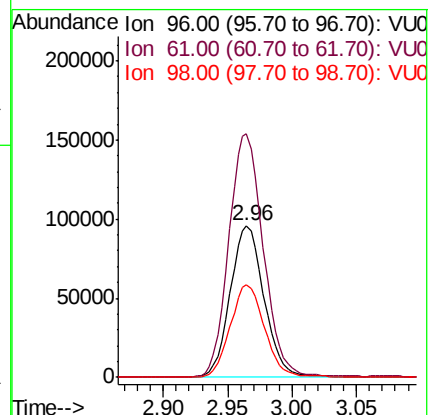
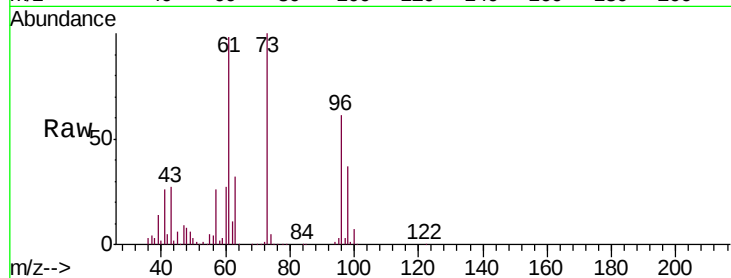
Tgt Ion: 96 Resp: 174392

Ion Ratio Lower Upper

96 100

61 160.4 124.0 230.4

98 61.4 46.1 85.7



#18

Methyl tert-butyl Ether

Concen: 50.023 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU034739.D

Acq: 23 Sep 2019 17:24

Tgt Ion: 73 Resp: 637739

Ion Ratio Lower Upper

73 100

43 25.7 20.9 31.3

57 24.9 19.5 29.3

