

Data File : VU029438.D
Acq On : 13 Feb 2019 10:32
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Quant Time: Feb 14 00:18:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 13 03:26:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	213577	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	200456	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	114285	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	67326	4.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.80%
7) Chloroethane-d5	1.68	69	59966	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.60%
11) 1,1-Dichloroethene-d2	2.27	63	150730	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.60%
20) 2-Butanone-d5	4.19	46	147101	49.30	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.60%
24) Chloroform-d	4.65	84	108974	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
26) 1,2-Dichloroethane-d4	5.31	65	57160	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.34	84	240410	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
36) 1,2-Dichloropropane-d6	6.33	67	70115	4.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.40%
41) Toluene-d8	7.56	98	236676	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
43) trans-1,3-Dichloropropene-	7.85	79	30614	4.81	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.20%
46) 2-Hexanone-d5	8.31	63	150152	51.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.52%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	60999	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	101740	4.83	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	97581	5.217	ug/L 99
3) Chloromethane	1.32	50	87575	4.962	ug/L 98
5) Vinyl chloride	1.40	62	104984	5.104	ug/L 98
6) Bromomethane	1.63	94	55945	4.663	ug/L 98
8) Chloroethane	1.70	64	66859	4.992	ug/L 98
9) Trichlorofluoromethane	1.88	101	164312	5.219	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	98242	5.294	ug/L 97
12) 1,1-Dichloroethene	2.28	96	92500	5.263	ug/L 92
13) Acetone	2.32	43	139226	51.366	ug/L 98
14) Carbon disulfide	2.48	76	299067	5.164	ug/L 99
15) Methyl Acetate	2.62	43	36229	5.218	ug/L 99
16) Methylene chloride	2.70	84	99583	5.041	ug/L 98
17) Methyl tert-butyl Ether	3.00	73	228692	5.196	ug/L 100
18) trans-1,2-Dichloroethene	2.98	96	99973	5.334	ug/L 97
19) 1,1-Dichloroethane	3.44	63	145474	5.152	ug/L 99
21) 2-Butanone	4.28	43	177555	53.013	ug/L 98
22) cis-1,2-Dichloroethene	4.22	96	90084	5.225	ug/L 100

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Instrument :
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ClientSampleId :
VSTD00553

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	42160	5.417	ug/L	94
25) Chloroform	4.67	83	152395	5.394	ug/L	96
27) 1,2-Dichloroethane	5.40	62	86103	5.267	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	129403	5.219	ug/L	100
30) Cyclohexane	4.99	56	122622	5.161	ug/L	98
31) Carbon tetrachloride	5.13	117	117086	5.227	ug/L	99
33) Benzene	5.39	78	307252	5.207	ug/L	100
34) Trichloroethene	6.18	95	87790	5.292	ug/L	96
35) Methylcyclohexane	6.41	83	145460	5.212	ug/L	97
37) 1,2-Dichloropropane	6.43	63	77695	5.257	ug/L	99
38) Bromodichloromethane	6.76	83	102135	5.230	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	121806	5.237	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	444202	52.143	ug/L	99
42) Toluene	7.63	91	352617	5.324	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	100706	5.272	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	58822	5.196	ug/L	92
47) Tetrachloroethene	8.22	164	82033	5.398	ug/L	98
48) 2-Hexanone	8.36	43	315645	50.838	ug/L	99
49) Dibromochloromethane	8.48	129	81345	5.331	ug/L	96
50) 1,2-Dibromoethane	8.59	107	60050	5.360	ug/L	96
51) Chlorobenzene	9.12	112	241785	5.309	ug/L	99
52) Ethylbenzene	9.25	91	397706	5.304	ug/L	100
53) m,p-xylene	9.37	106	158147	5.288	ug/L	99
54) o-xylene	9.77	106	154847	5.276	ug/L	99
55) Styrene	9.79	104	256481	5.264	ug/L	100
56) Isopropylbenzene	10.16	105	409232	5.286	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	72963	5.281	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	50600	5.337	ug/L	95
61) Bromoform	9.96	173	50757	5.247	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	210984	5.211	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	213550	5.282	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	196977	5.163	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	12079	5.061	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	174948	5.208	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	152699	5.397	ug/L	99
69) Naphthalene	13.74	128	249938	5.115	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	138367	5.115	ug/L	98

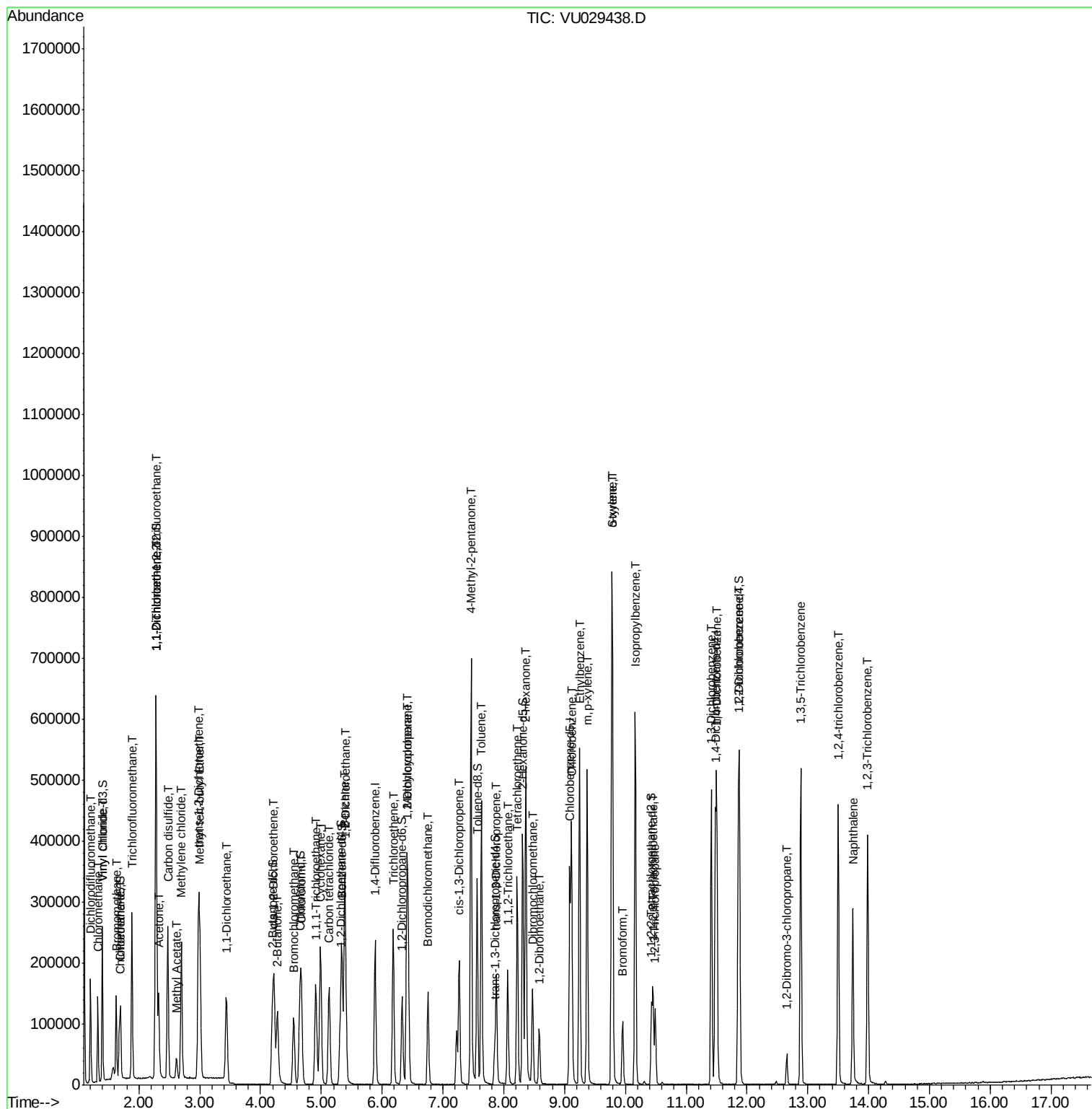
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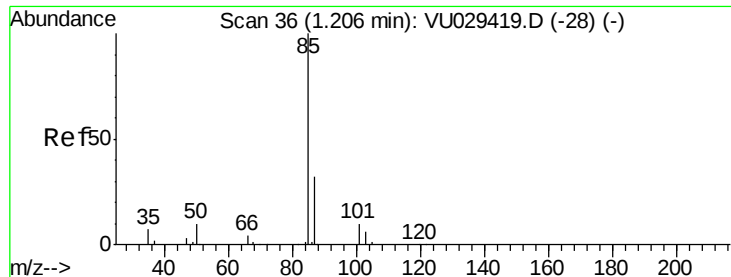
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Acq On       : 13 Feb 2019   10:32
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ALS Vial     : 2      Sample Multiplier: 1
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Instrument :
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ClientSampleId :
VSTD00553

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#2

Dichlorodifluoromethane

Concen: 5.217 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

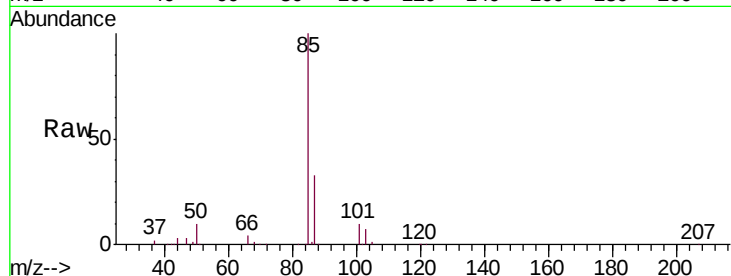
VSTD00553

Tgt Ion: 85 Resp: 97581

Ion Ratio Lower Upper

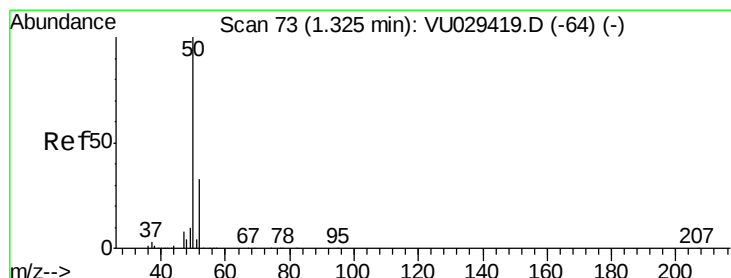
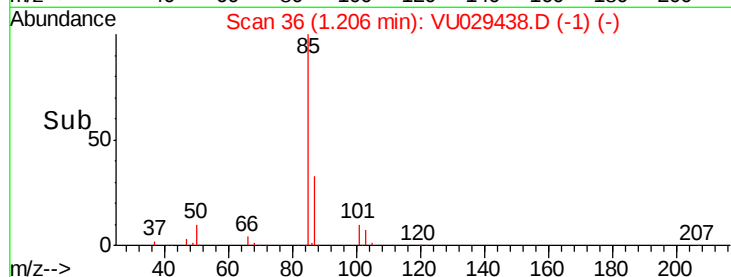
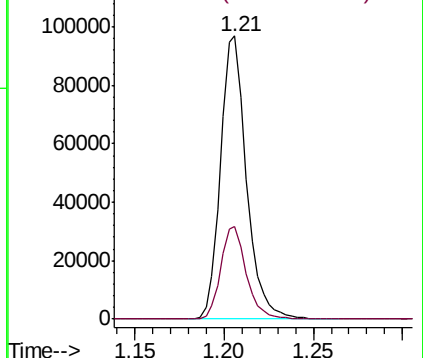
85 100

87 32.3 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.962 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029438.D

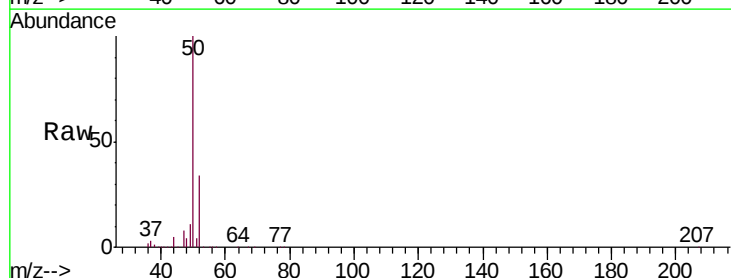
Acq: 13 Feb 2019 10:32

Tgt Ion: 50 Resp: 87575

Ion Ratio Lower Upper

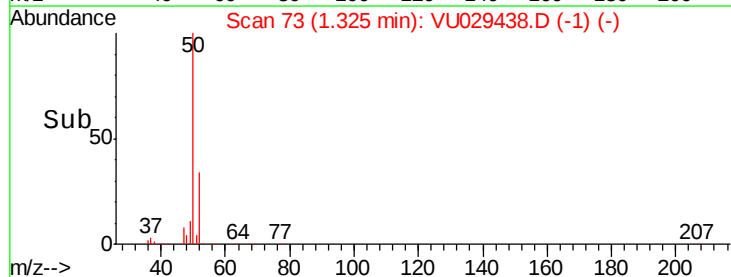
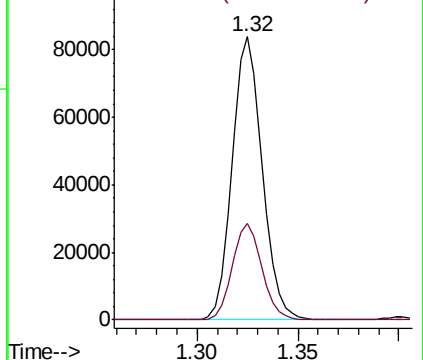
50 100

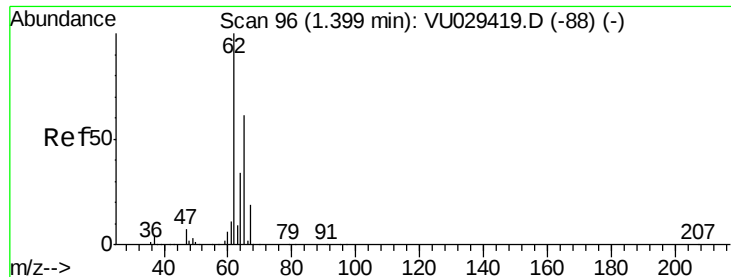
52 33.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 5.104 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampled :

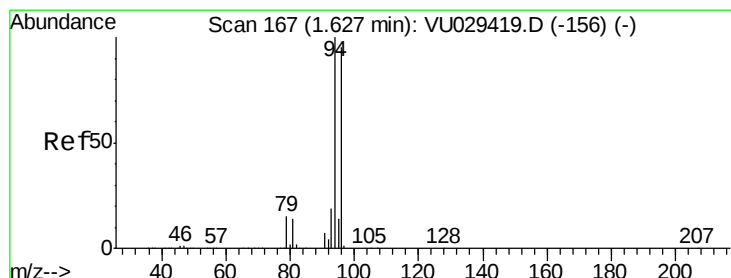
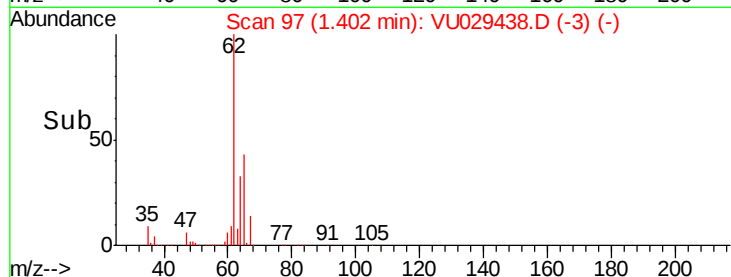
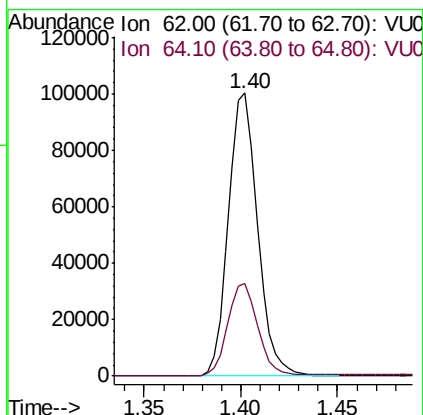
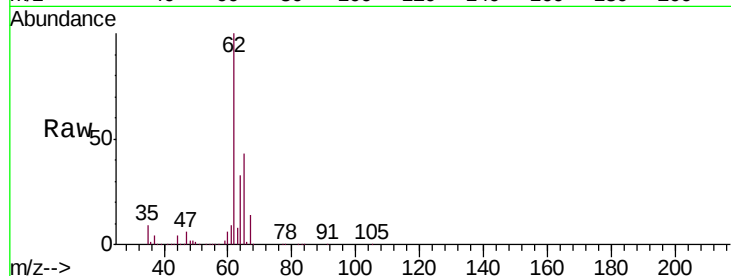
VSTD00553

Tgt Ion: 62 Resp: 104984

Ion Ratio Lower Upper

62 100

64 32.6 23.5 43.7



#6

Bromomethane

Concen: 4.663 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU029438.D

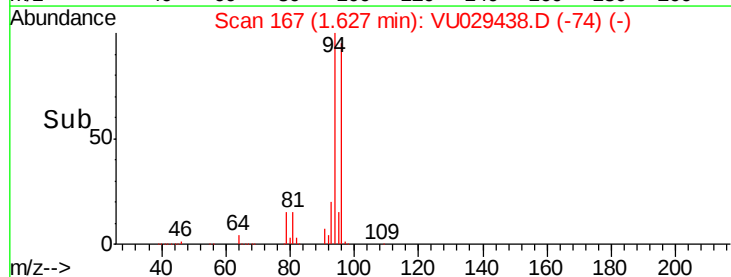
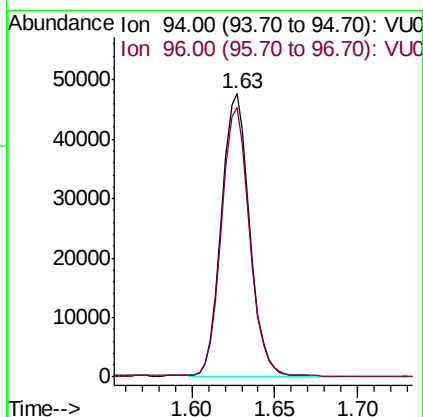
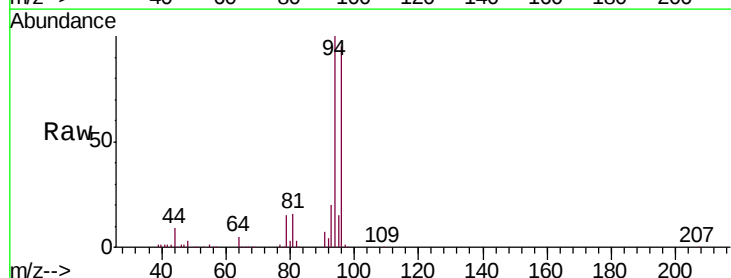
Acq: 13 Feb 2019 10:32

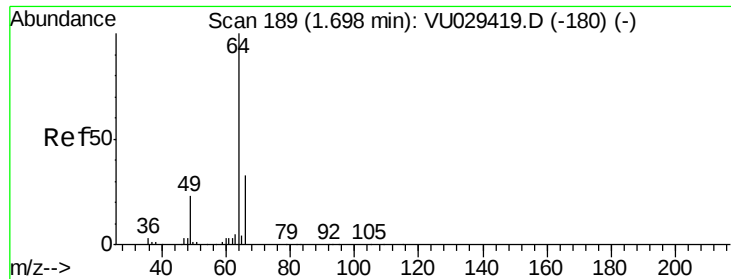
Tgt Ion: 94 Resp: 55945

Ion Ratio Lower Upper

94 100

96 94.9 65.2 121.0





#8

Chloroethane

Concen: 4.992 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

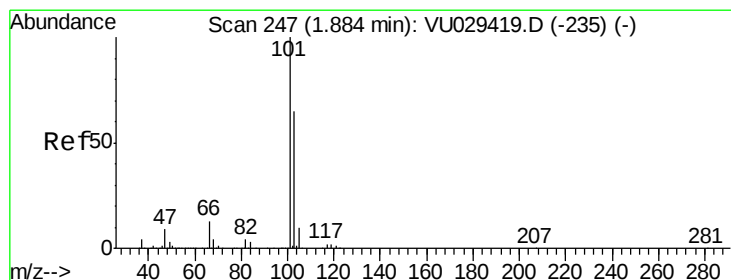
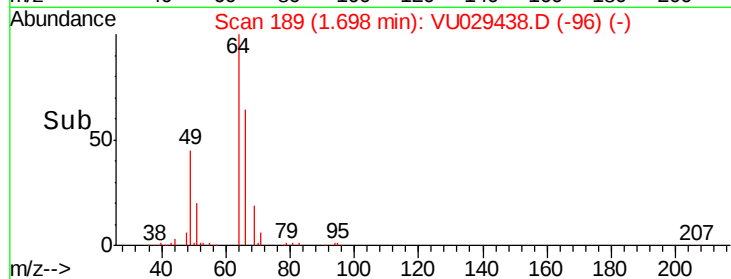
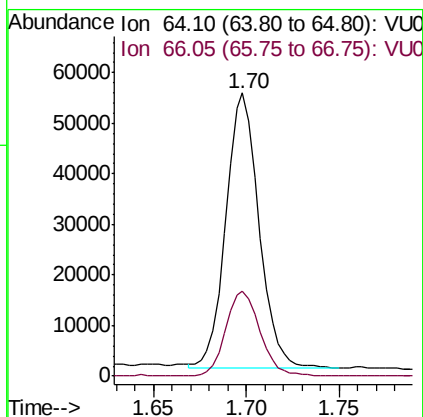
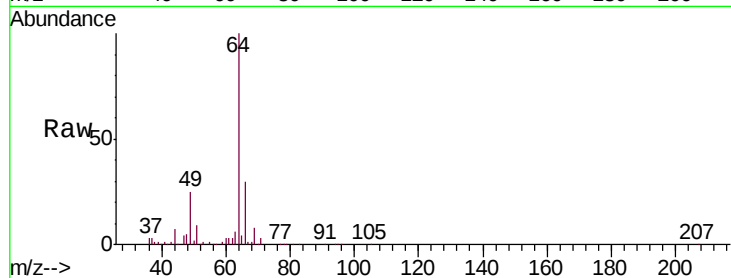
VSTD00553

Tgt Ion: 64 Resp: 66859

Ion Ratio Lower Upper

64 100

66 30.1 22.0 40.8



#9

Trichlorofluoromethane

Concen: 5.219 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029438.D

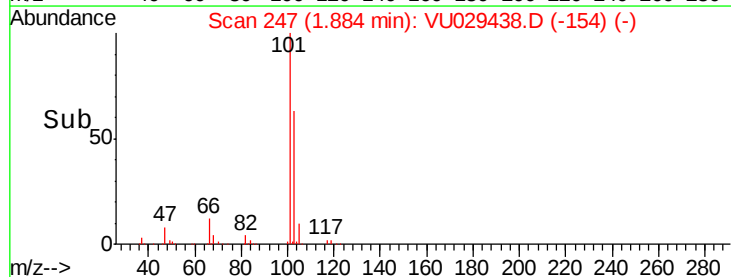
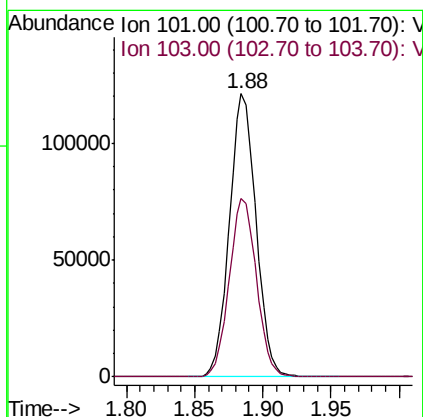
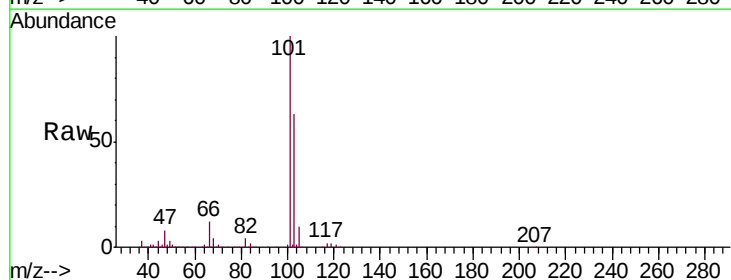
Acq: 13 Feb 2019 10:32

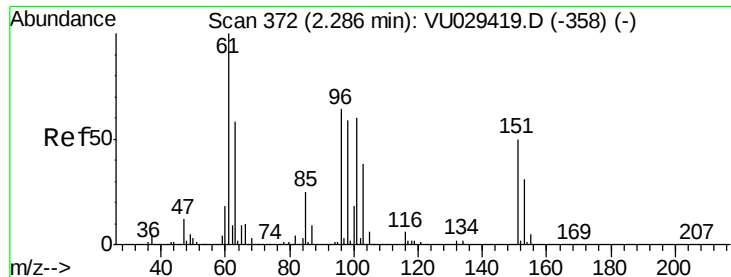
Tgt Ion: 101 Resp: 164312

Ion Ratio Lower Upper

101 100

103 64.4 52.1 78.1





#10

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

Concen: 5.294 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

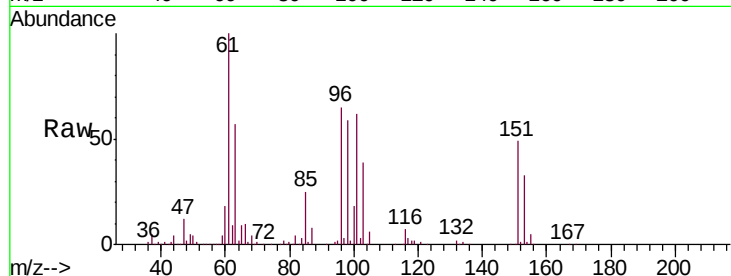
Tgt Ion:101 Resp: 98242

Ion Ratio Lower Upper

101 100

85 42.0 35.1 52.7

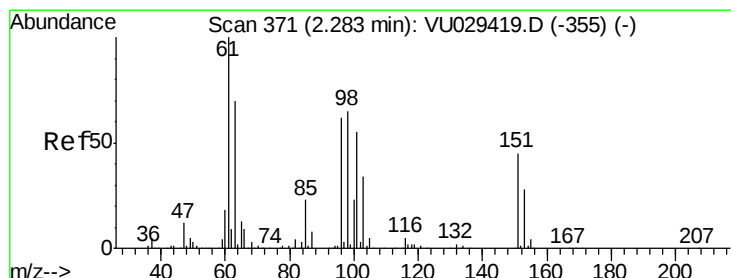
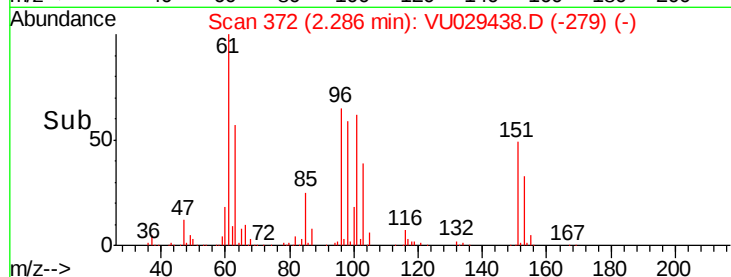
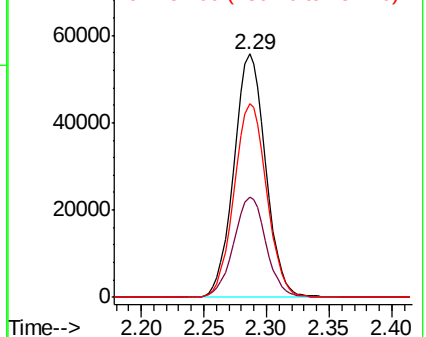
151 81.5 67.0 100.6



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: 5.263 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

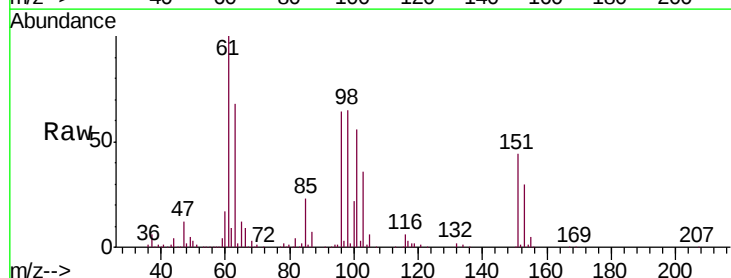
Tgt Ion: 96 Resp: 92500

Ion Ratio Lower Upper

96 100

61 157.2 115.1 213.7

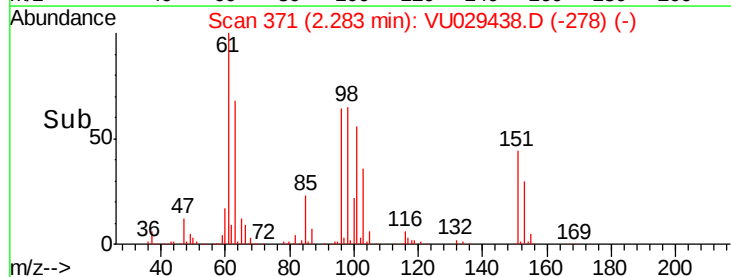
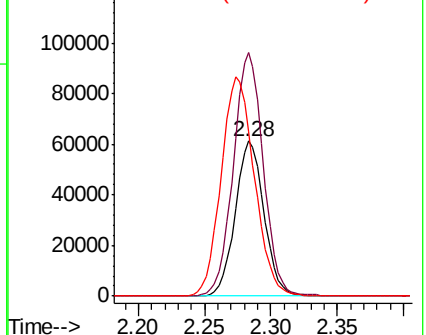
63 106.4 83.5 155.1

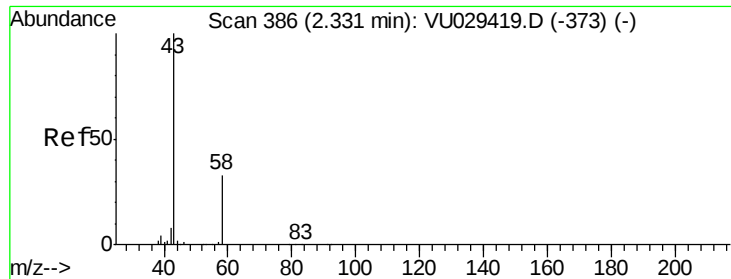


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.366 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

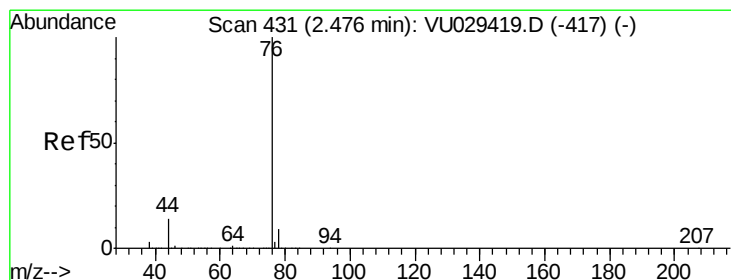
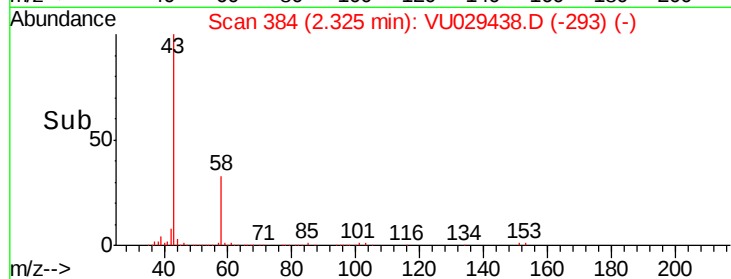
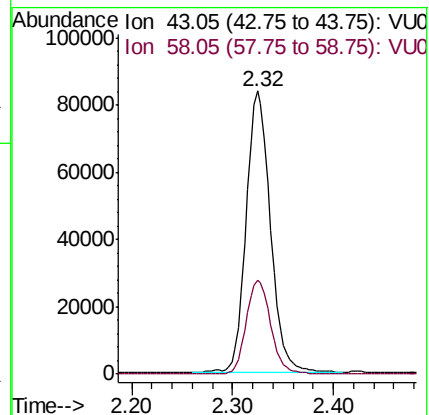
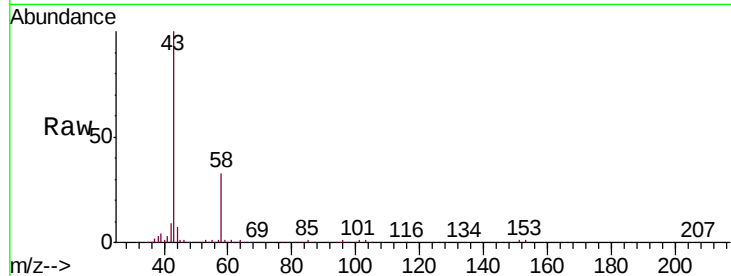
VSTD00553

Tgt Ion: 43 Resp: 139226

Ion Ratio Lower Upper

43 100

58 33.7 0.0 65.0



#14

Carbon disulfide

Concen: 5.164 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU029438.D

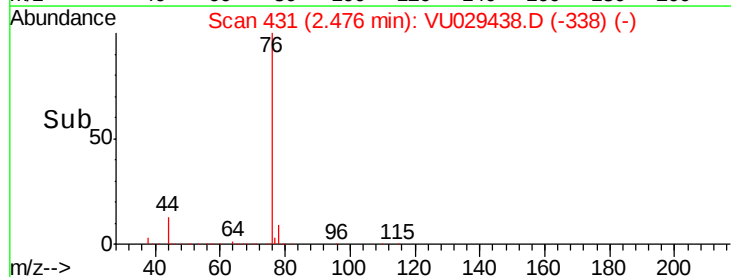
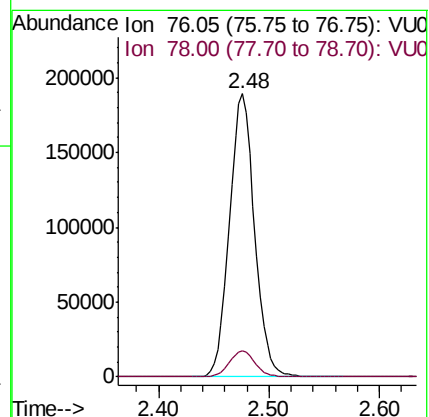
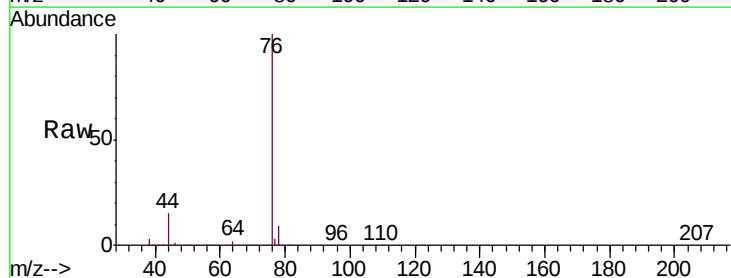
Acq: 13 Feb 2019 10:32

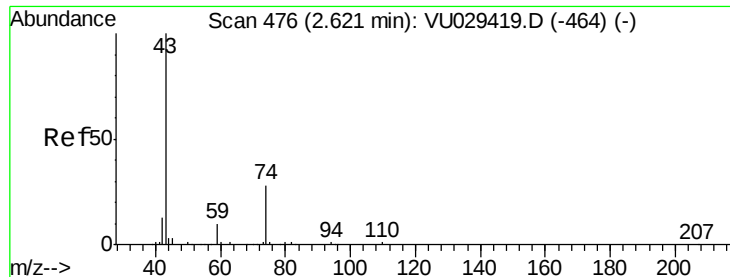
Tgt Ion: 76 Resp: 299067

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3

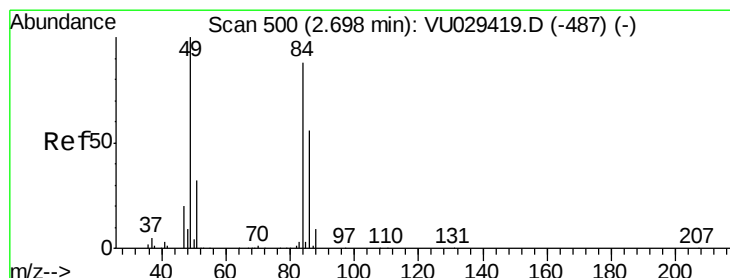
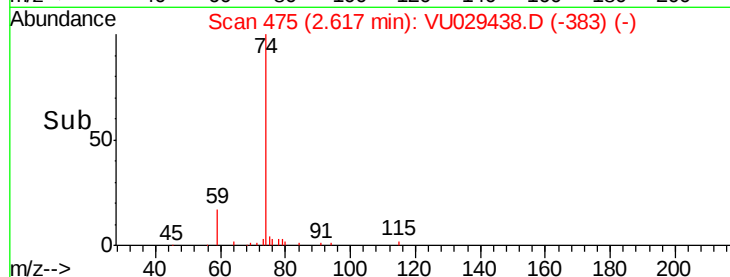
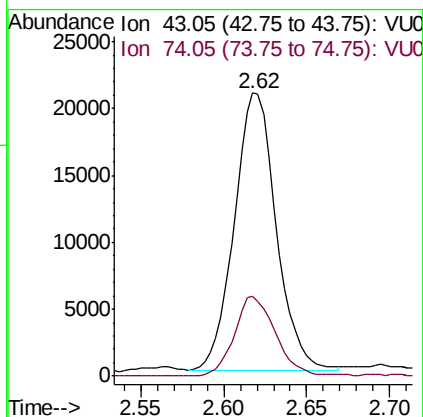
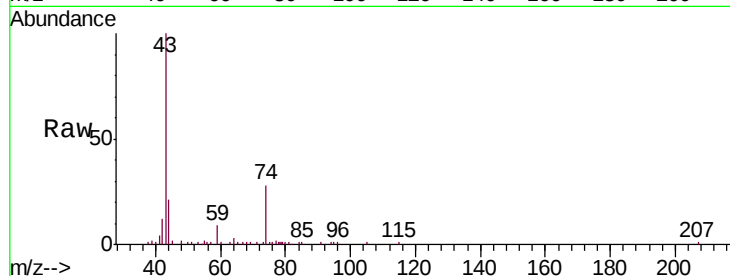




#15
Methyl Acetate
Concen: 5.218 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

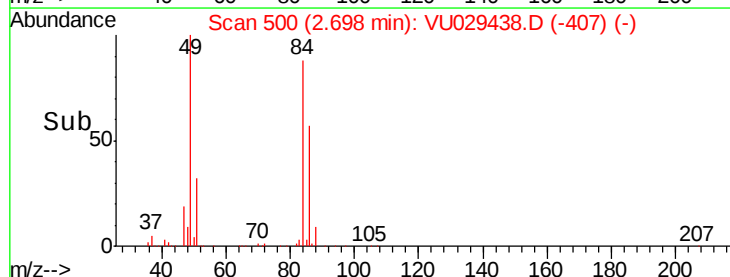
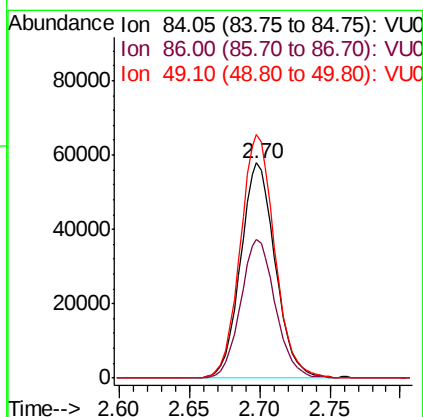
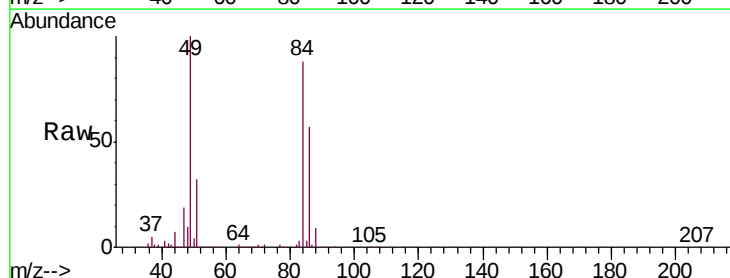
Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

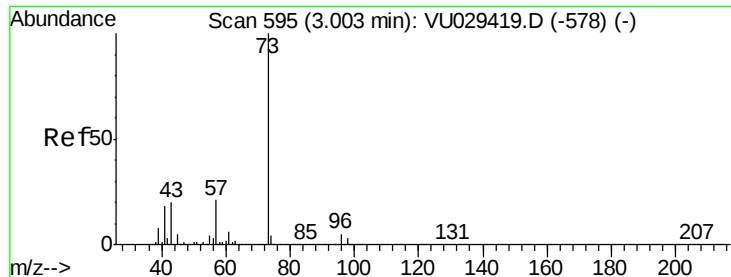
Tgt Ion: 43 Resp: 36229
Ion Ratio Lower Upper
43 100
74 28.6 22.3 33.5



#16
Methylene chloride
Concen: 5.041 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion: 84 Resp: 99583
Ion Ratio Lower Upper
84 100
86 64.5 45.1 83.9
49 113.3 81.8 151.8

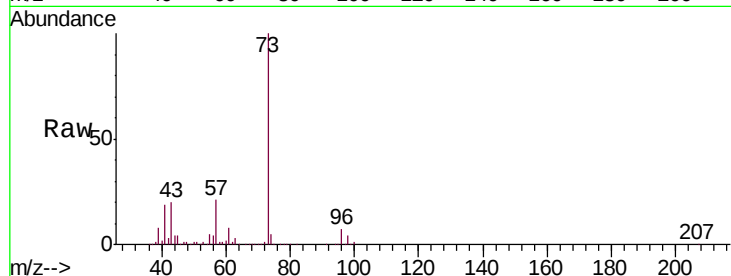




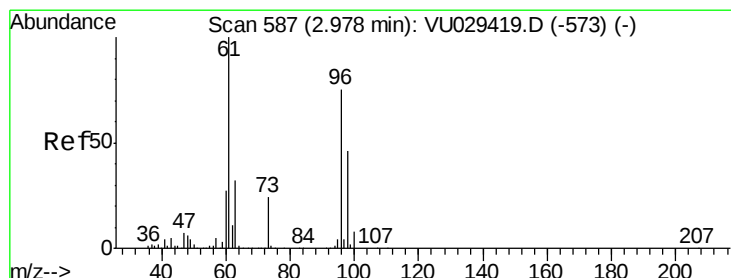
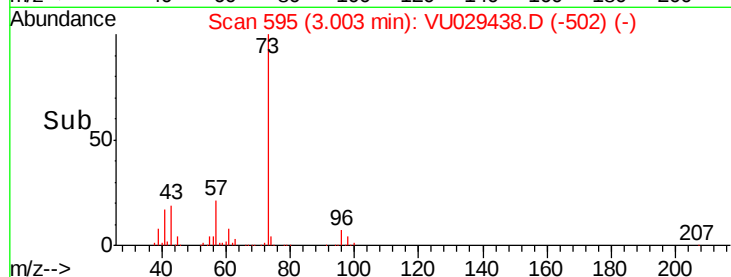
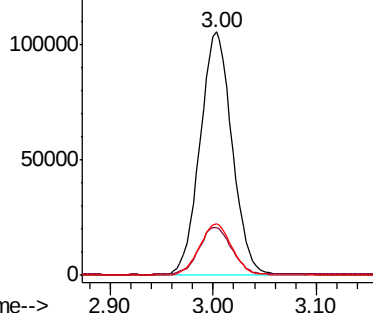
#17
Methyl tert-butyl Ether
Concen: 5.196 ug/L
RT: 3.00 min Scan# 595
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Tgt Ion:	73	Resp:	228692
Ion	Ratio	Lower	Upper
73	100		
43	19.8	16.0	24.0
57	21.1	16.9	25.3

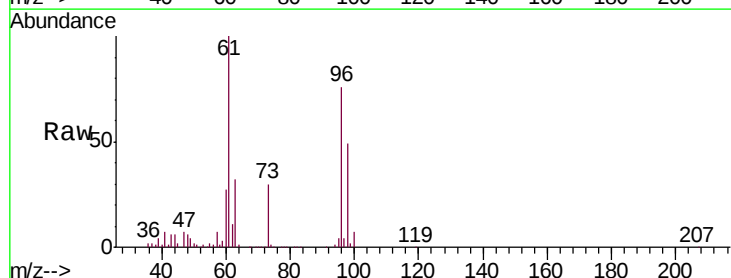


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

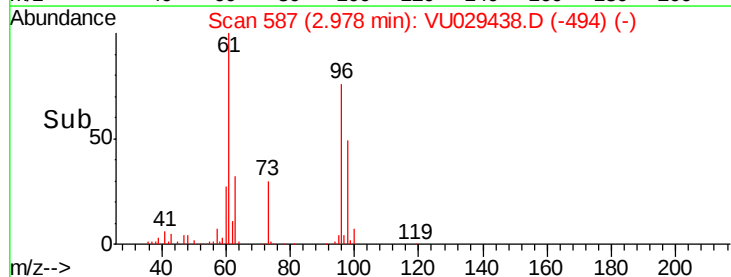
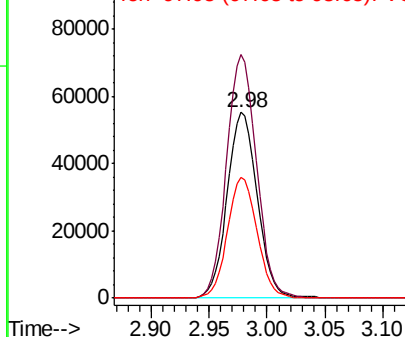


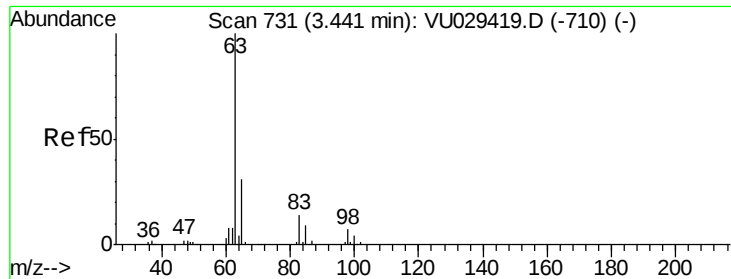
#18
trans-1,2-Dichloroethene
Concen: 5.334 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion:	96	Resp:	99973
Ion	Ratio	Lower	Upper
96	100		
61	131.3	95.4	177.2
98	65.0	45.8	85.2



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

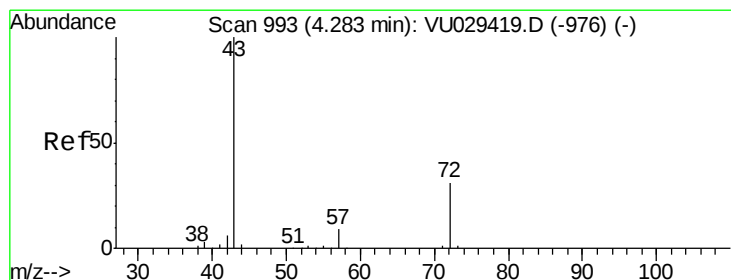
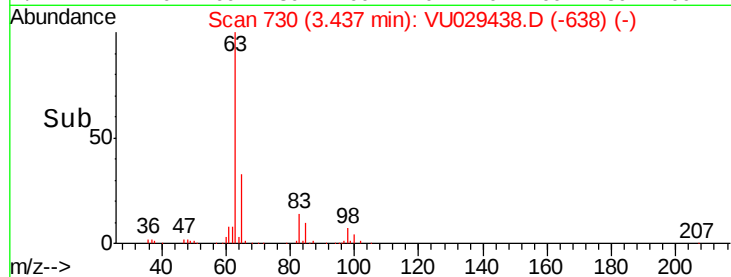
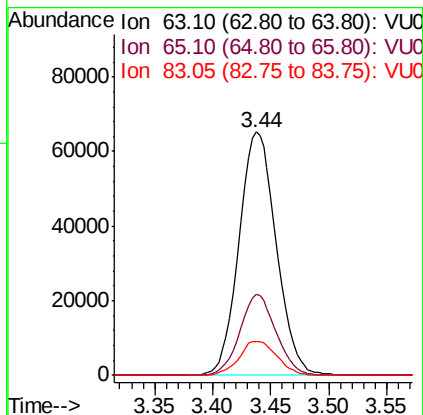
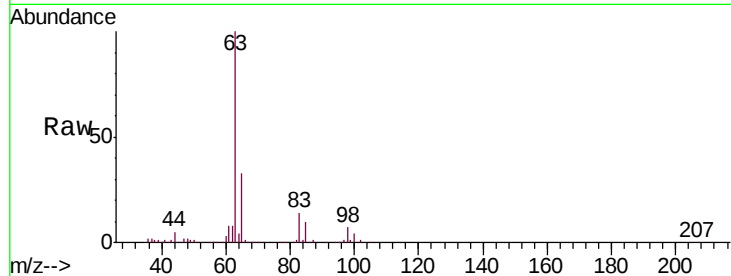




#19
 1,1-Dichloroethane
 Concen: 5.152 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

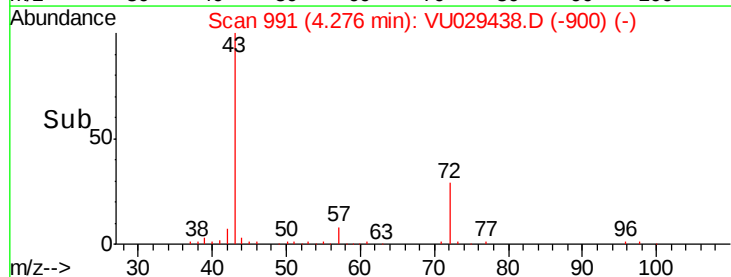
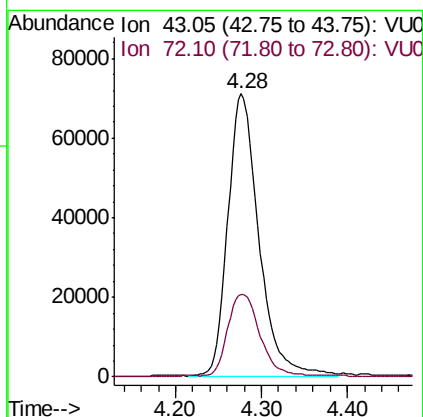
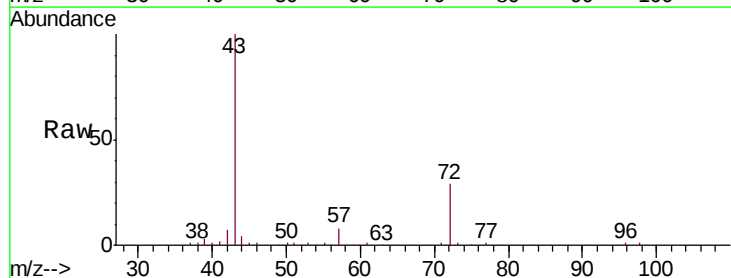
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

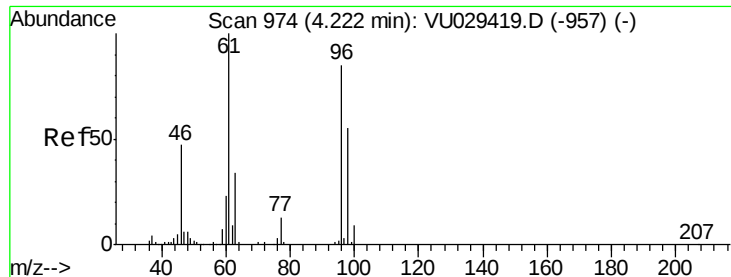
Tgt Ion: 63 Resp: 145474
 Ion Ratio Lower Upper
 63 100
 65 33.4 23.5 43.7
 83 13.9 10.3 19.1



#21
 2-Butanone
 Concen: 53.013 ug/L
 RT: 4.28 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Tgt Ion: 43 Resp: 177555
 Ion Ratio Lower Upper
 43 100
 72 30.3 14.7 44.1



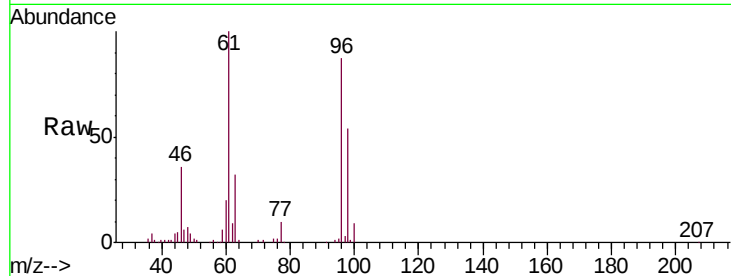


#22

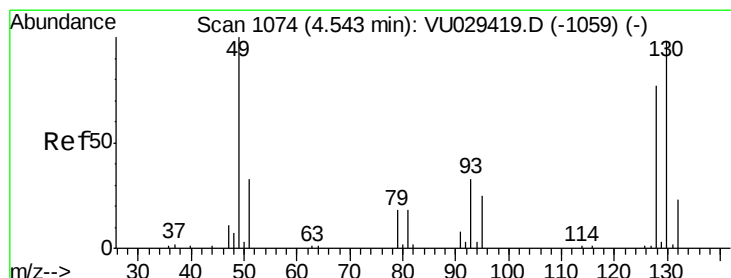
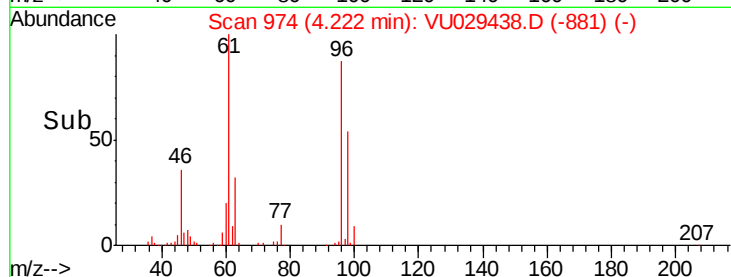
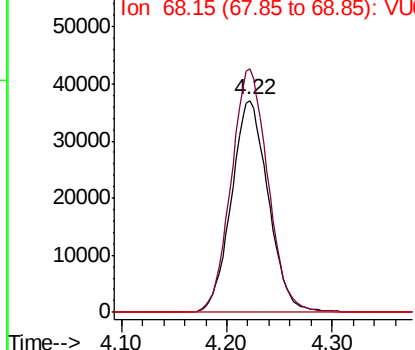
cis-1,2-Dichloroethene
Concen: 5.225 ug/L
RT: 4.22 min Scan# 974
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Instrument :
MSVOA_U
ClientSampled :
VSTD00553

Tgt Ion: 96 Resp: 90084
Ion Ratio Lower Upper
96 100
61 114.7 79.9 148.5
68 0.0 0.0 0.0



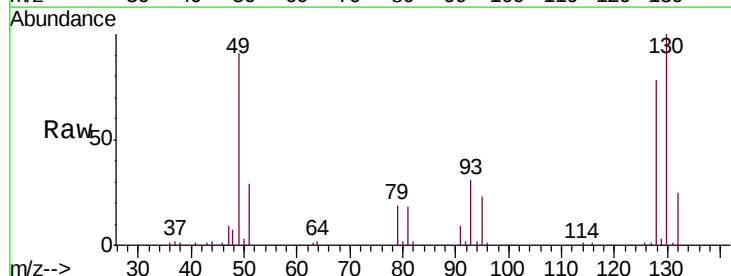
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



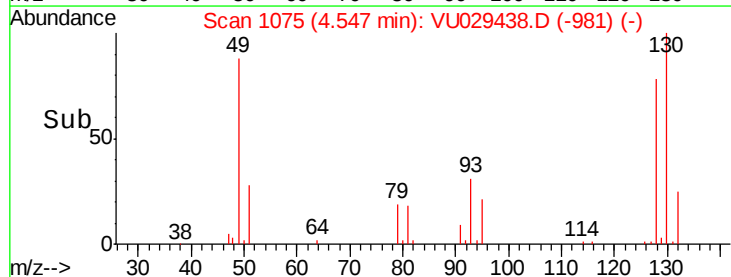
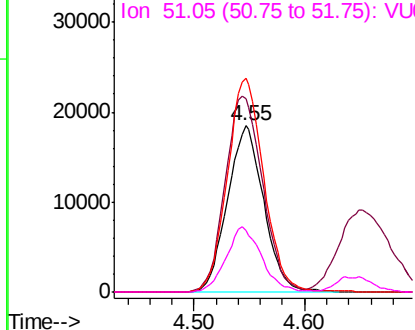
#23

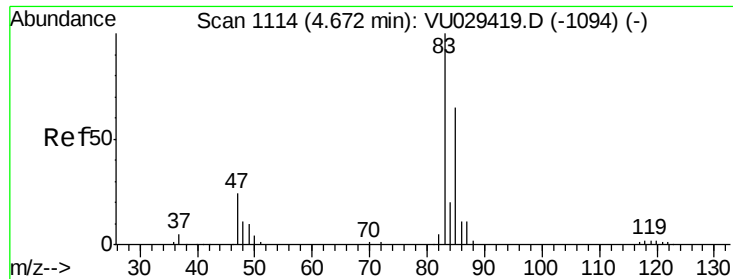
Bromochloromethane
Concen: 5.417 ug/L
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion: 128 Resp: 42160
Ion Ratio Lower Upper
128 100
49 116.6 89.0 165.4
130 128.7 88.0 163.4
51 37.1 32.1 48.1



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

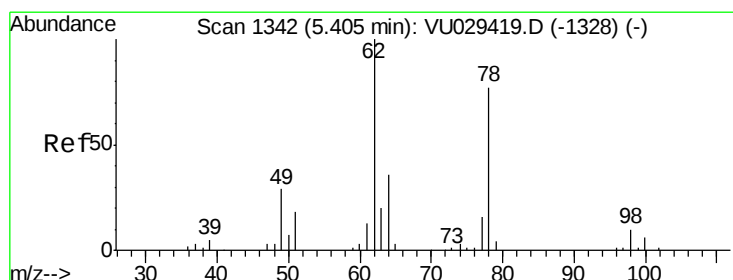
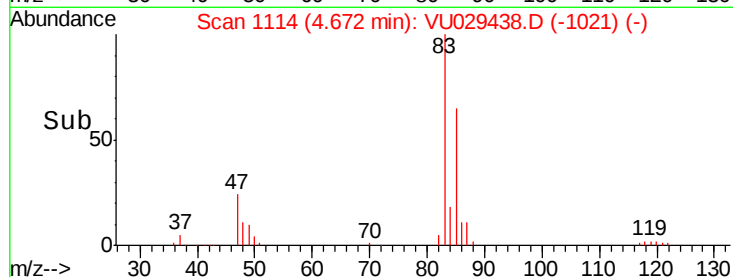
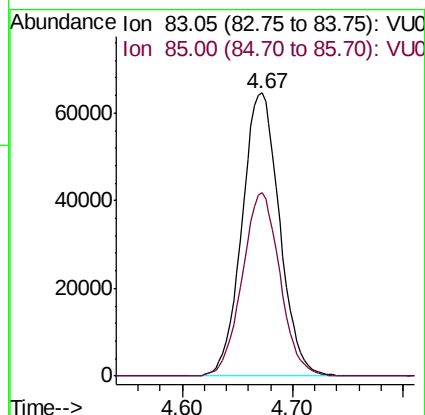
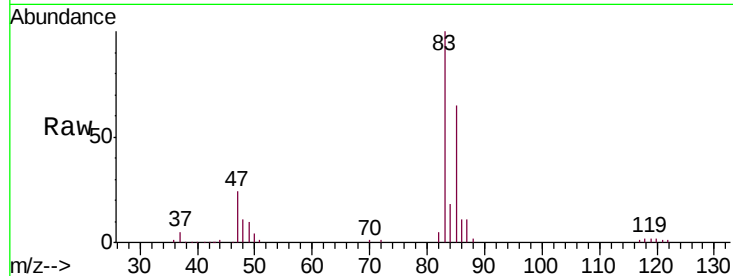




#25
Chloroform
Concen: 5.394 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

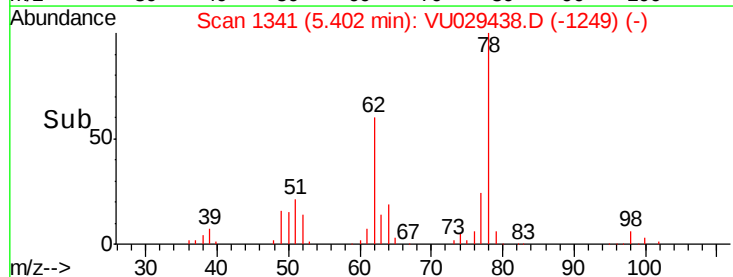
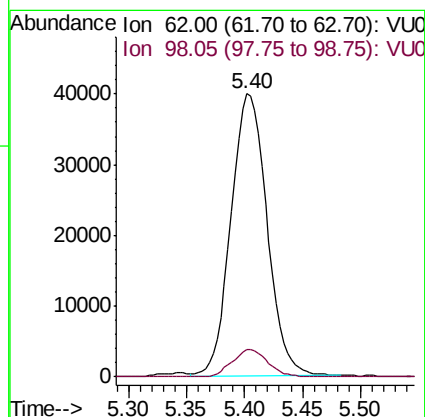
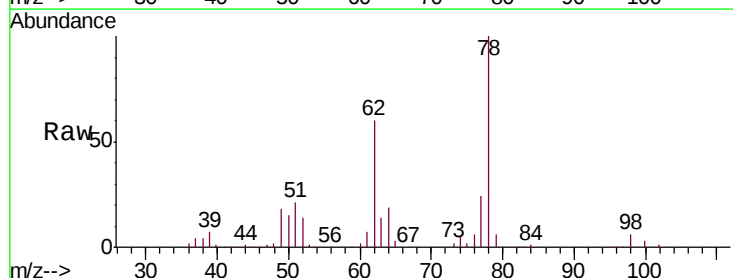
Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

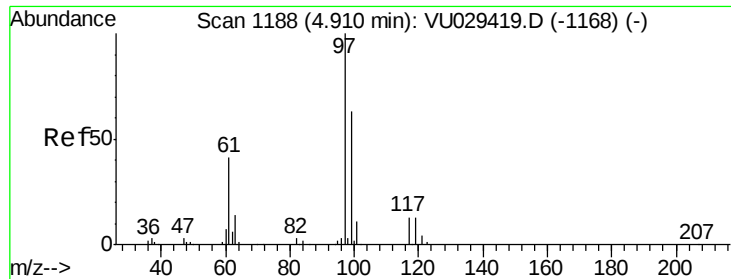
Tgt Ion: 83 Resp: 152395
Ion Ratio Lower Upper
83 100
85 65.0 47.8 88.8



#27
1,2-Dichloroethane
Concen: 5.267 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion: 62 Resp: 86103
Ion Ratio Lower Upper
62 100
98 9.7 8.4 12.6

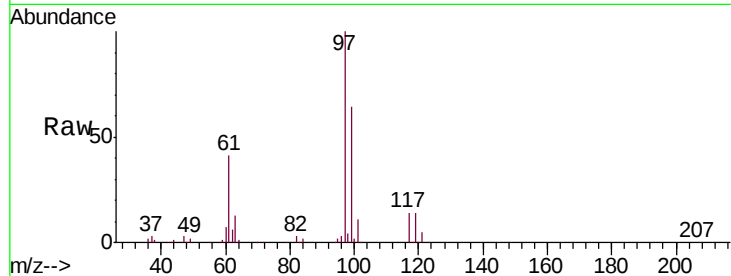




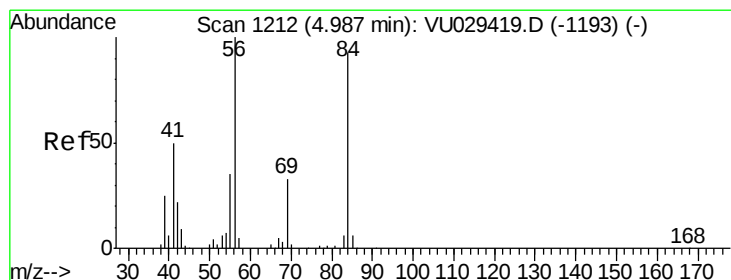
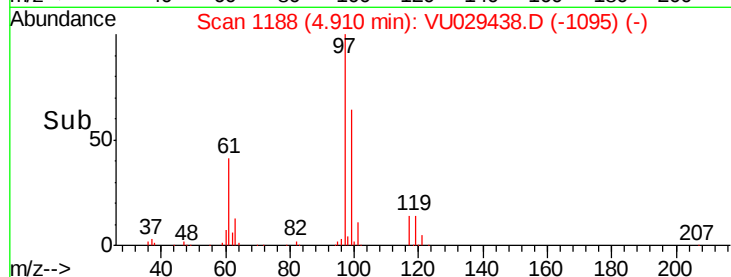
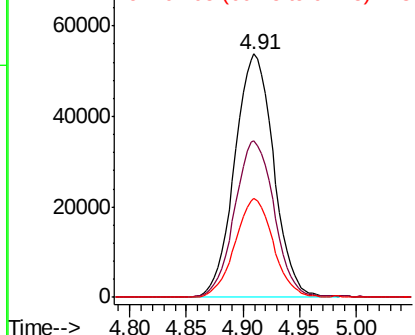
#29
1,1,1-Trichloroethane
Concen: 5.219 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Tgt Ion: 97 Resp: 129403
Ion Ratio Lower Upper
97 100
99 65.7 52.2 78.2
61 39.9 32.0 48.0

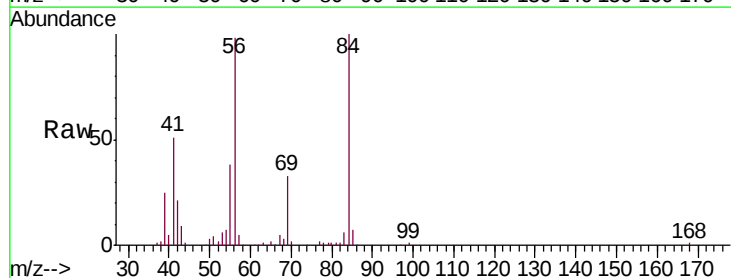


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

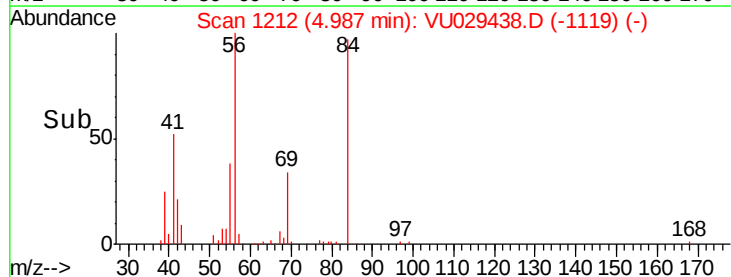
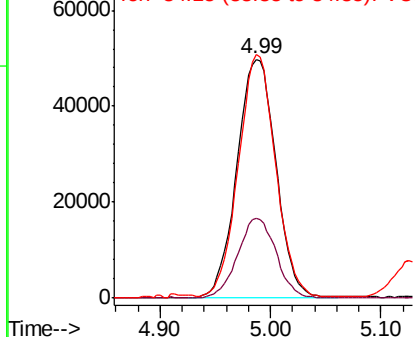


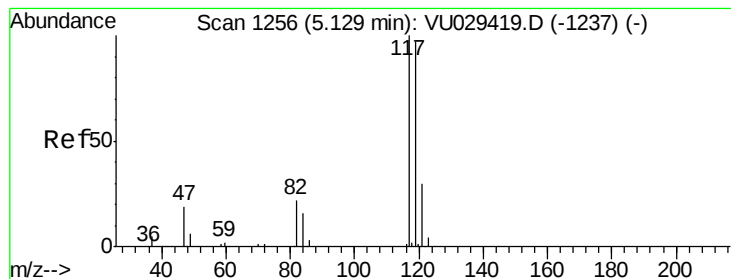
#30
Cyclohexane
Concen: 5.161 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion: 56 Resp: 122622
Ion Ratio Lower Upper
56 100
69 32.8 25.8 38.6
84 96.2 75.0 112.6



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.227 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

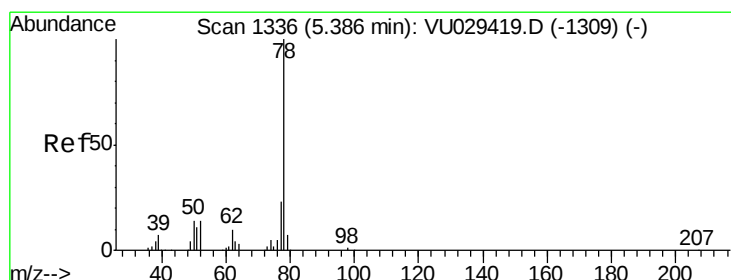
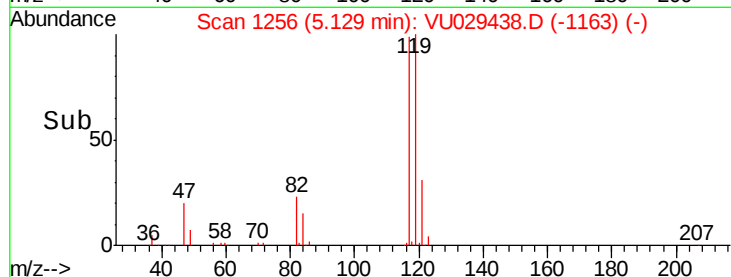
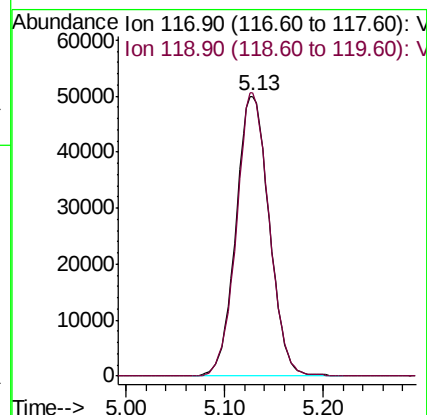
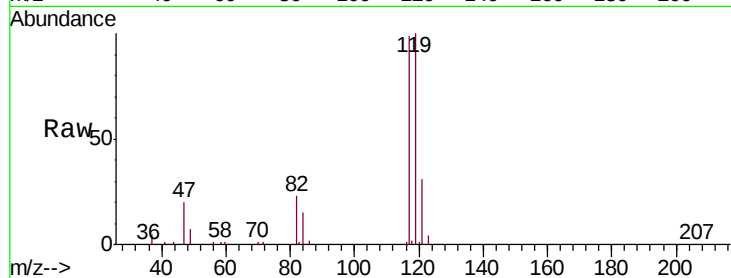
VSTD00553

Tgt Ion:117 Resp: 117086

Ion Ratio Lower Upper

117 100

119 99.0 78.1 117.1



#33

Benzene

Concen: 5.207 ug/L

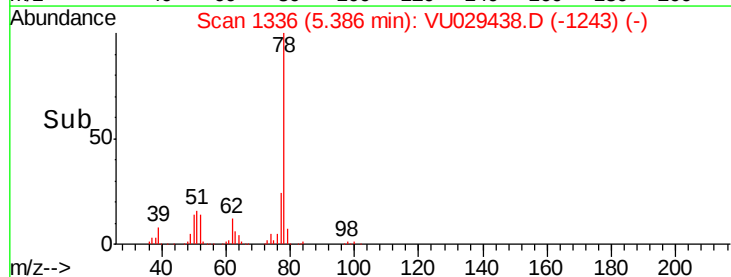
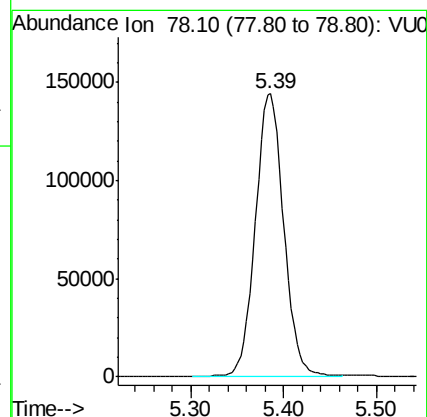
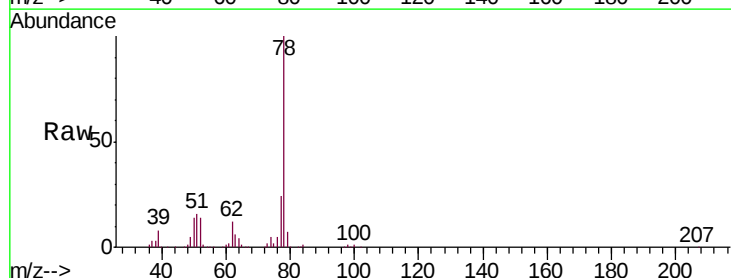
RT: 5.39 min Scan# 1336

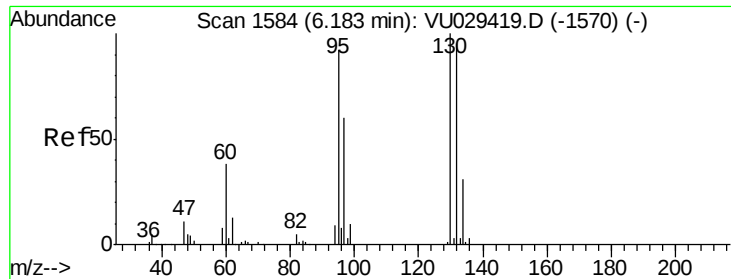
Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Tgt Ion: 78 Resp: 307252





#34

Trichloroethene

Concen: 5.292 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

Tgt Ion: 95 Resp: 87790

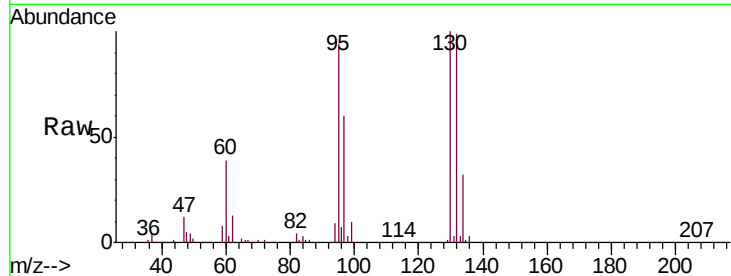
Ion Ratio Lower Upper

95 100

97 63.9 46.3 86.1

132 105.0 72.9 135.3

130 105.8 79.2 147.0

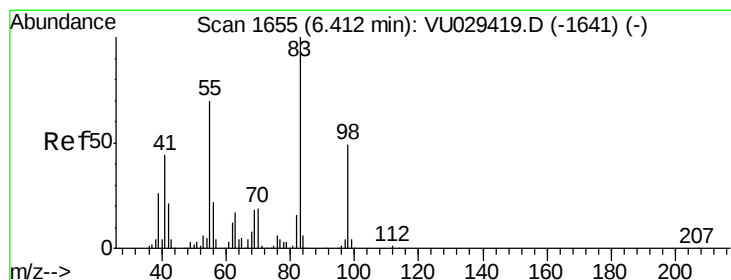
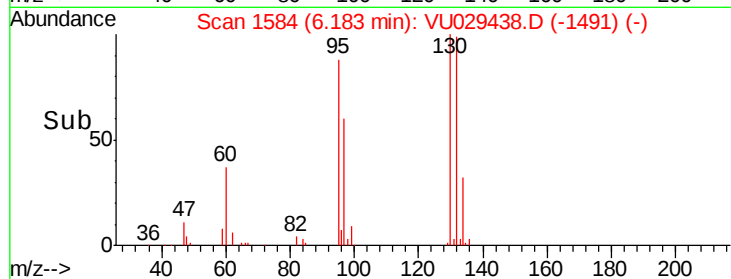
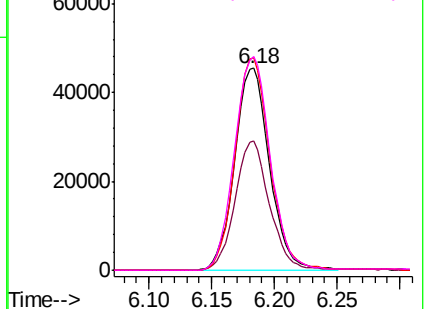


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.212 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

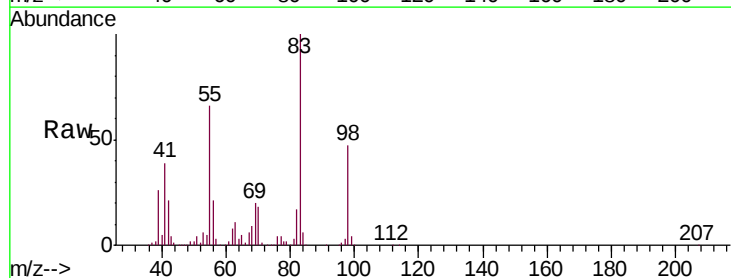
Tgt Ion: 83 Resp: 145460

Ion Ratio Lower Upper

83 100

55 66.6 55.9 83.9

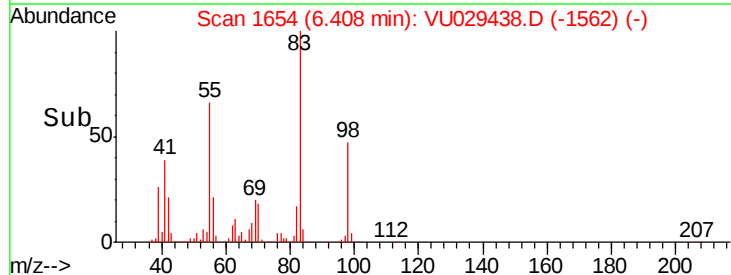
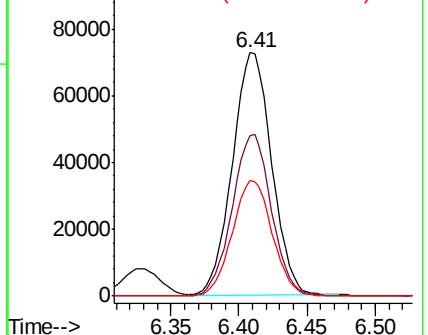
98 48.4 38.6 57.8

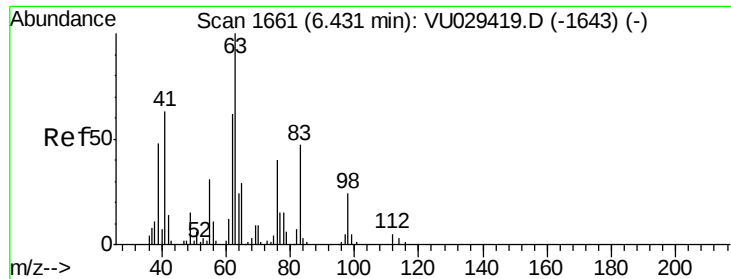


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.257 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

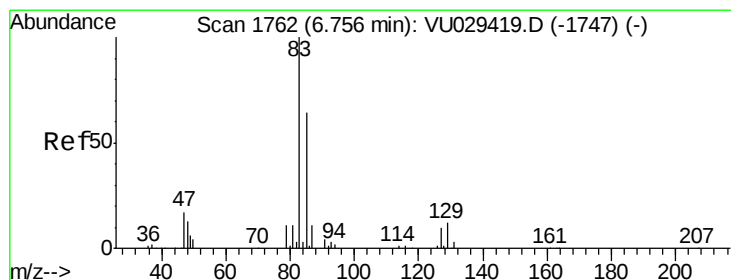
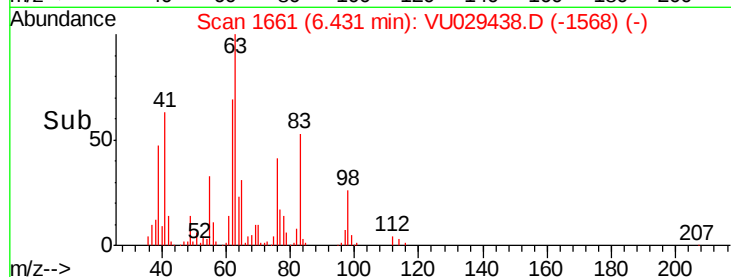
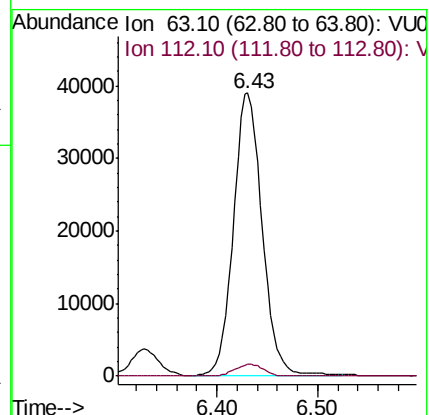
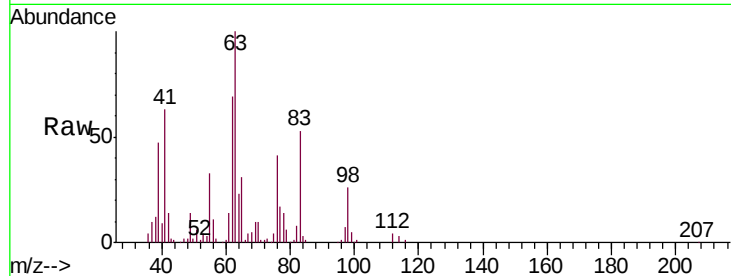
VSTD00553

Tgt Ion: 63 Resp: 77695

Ion Ratio Lower Upper

63 100

112 4.1 3.5 5.3



#38

Bromodichloromethane

Concen: 5.230 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

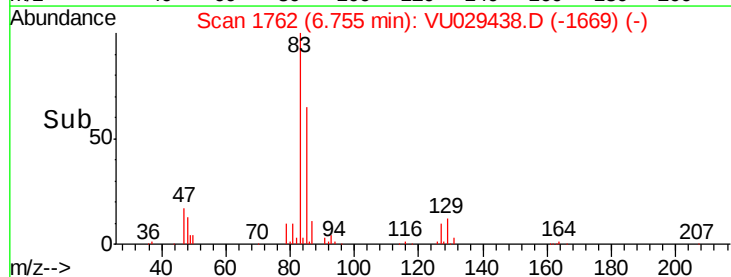
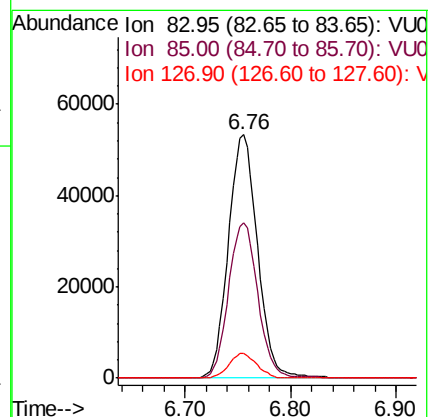
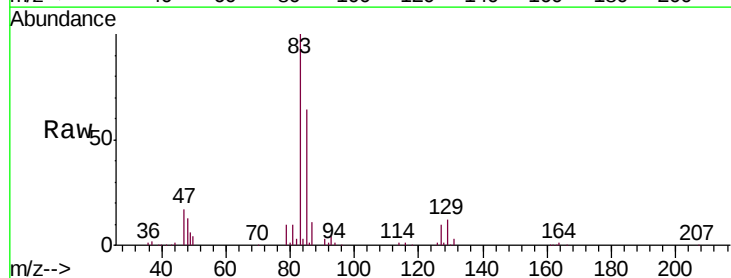
Tgt Ion: 83 Resp: 102135

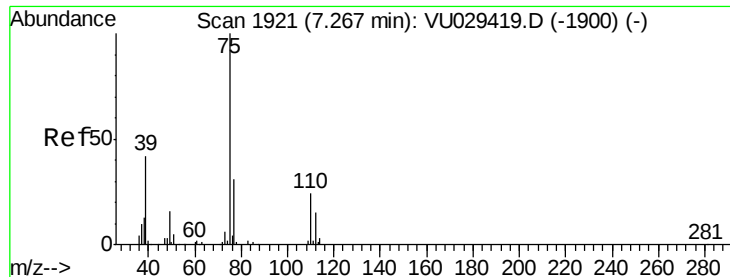
Ion Ratio Lower Upper

83 100

85 63.8 45.1 83.7

127 10.3 7.8 11.8





#39

cis-1,3-Dichloropropene

Concen: 5.237 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

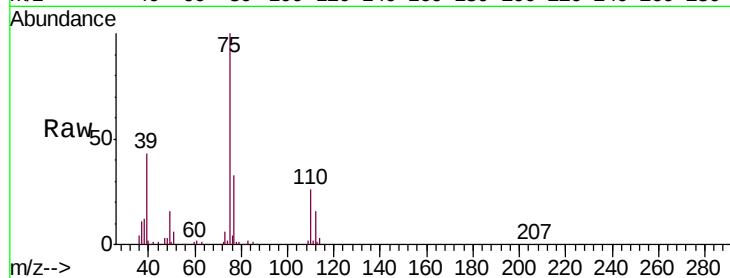
VSTD00553

Tgt Ion: 75 Resp: 121806

Ion Ratio Lower Upper

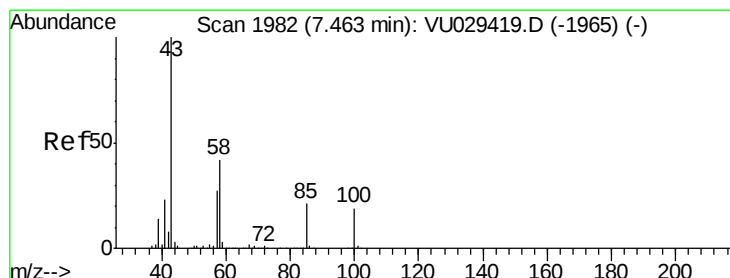
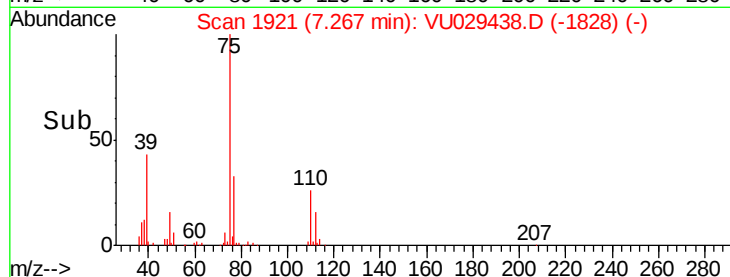
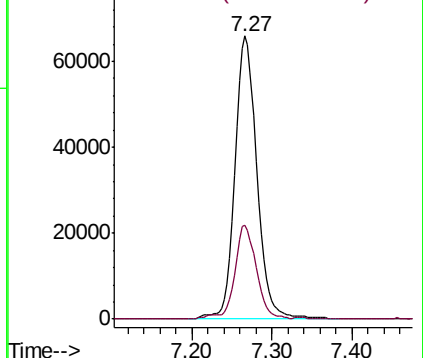
75 100

77 33.3 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 52.143 ug/L

RT: 7.46 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

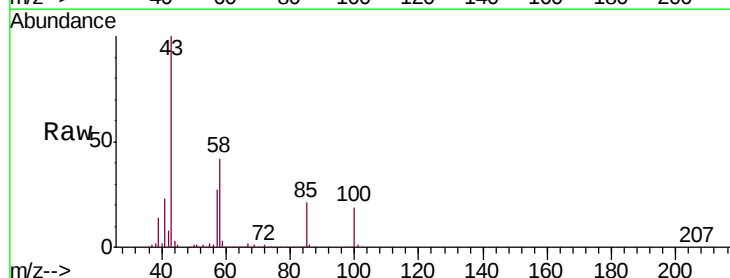
Tgt Ion: 43 Resp: 444202

Ion Ratio Lower Upper

43 100

58 41.3 33.4 50.2

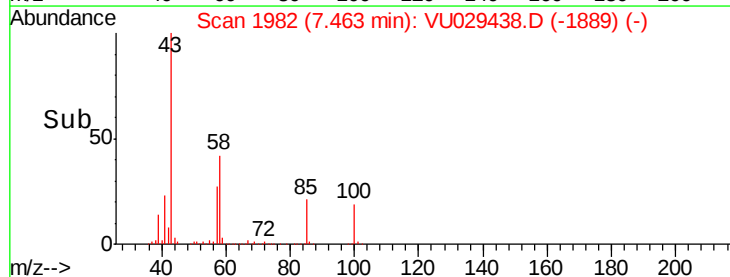
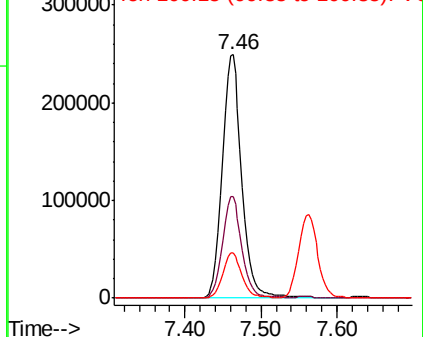
100 18.4 14.4 21.6

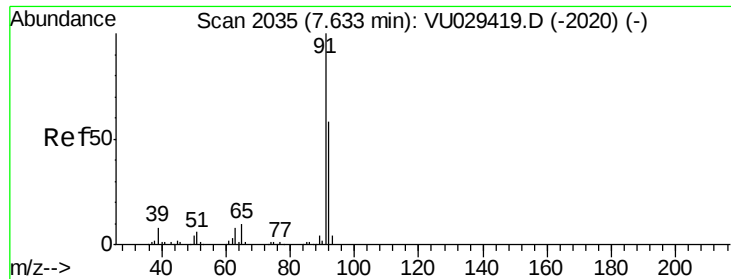


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 5.324 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

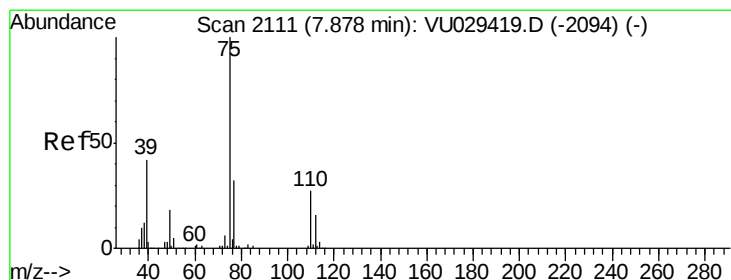
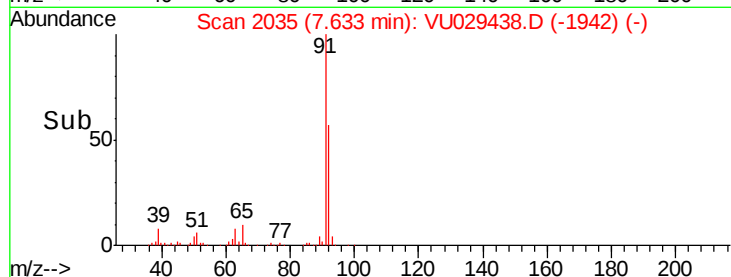
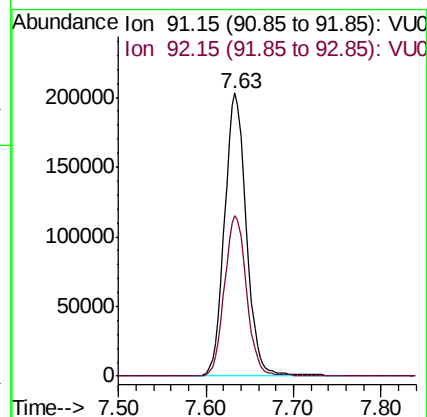
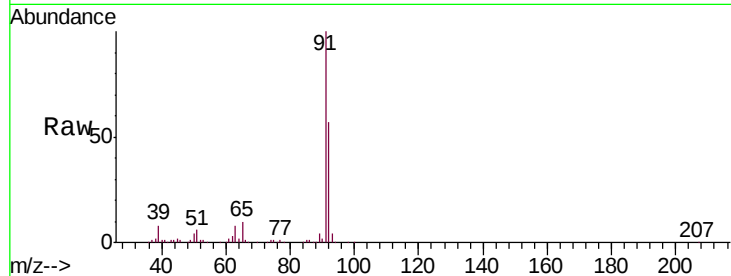
VSTD00553

Tgt Ion: 91 Resp: 352617

Ion Ratio Lower Upper

91 100

92 56.8 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 5.272 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029438.D

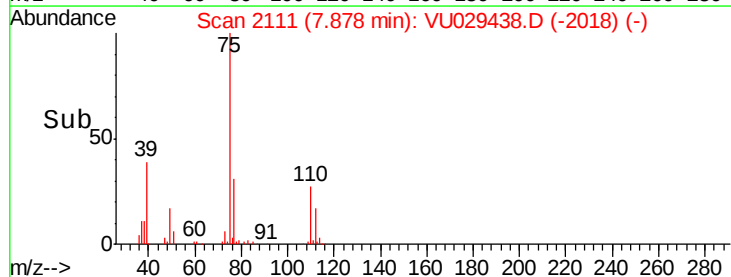
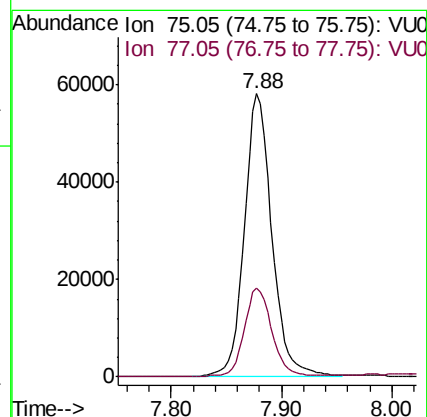
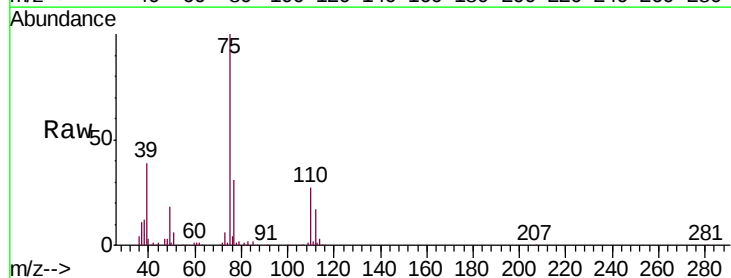
Acq: 13 Feb 2019 10:32

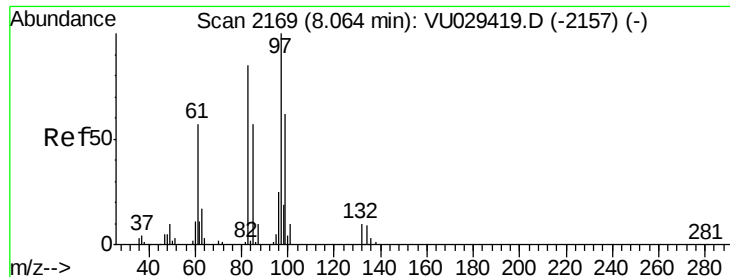
Tgt Ion: 75 Resp: 100706

Ion Ratio Lower Upper

75 100

77 31.2 22.2 41.2

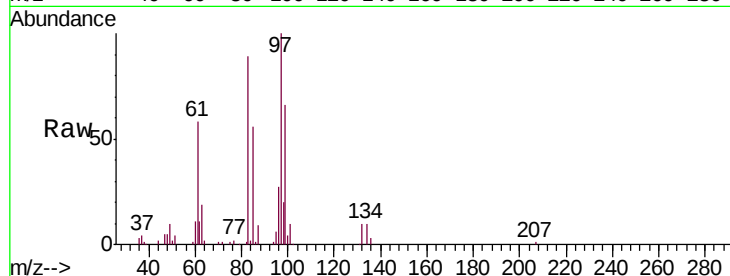




#45
 1,1,2-Trichloroethane
 Concen: 5.196 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

Tgt Ion:	97	Resp:	58822
Ion	Ratio	Lower	Upper
97	100		
99	66.5	41.6	77.2
83	89.5	55.8	103.6
85	55.5	37.2	69.0



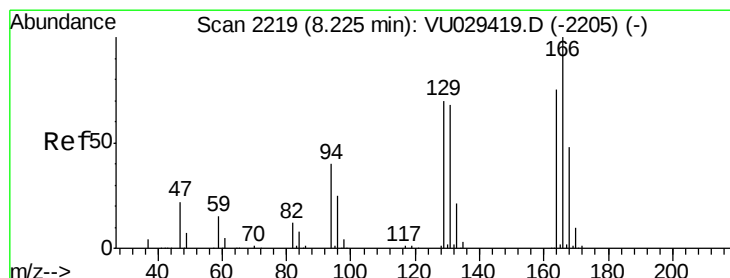
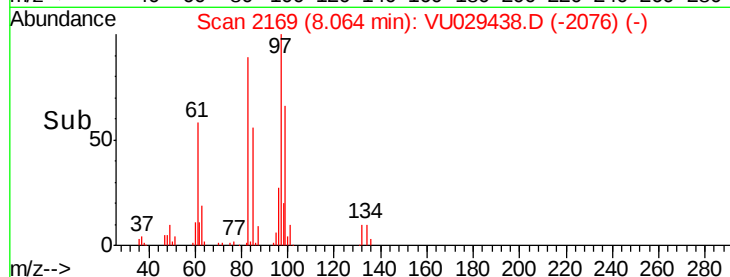
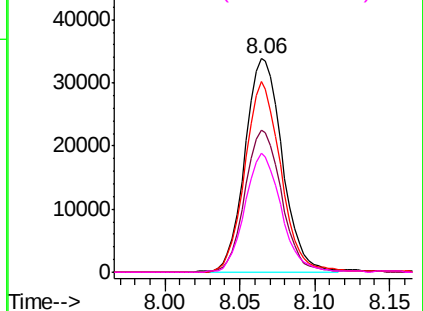
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

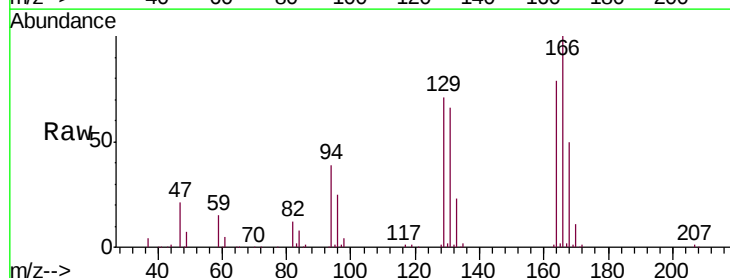
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.398 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Tgt Ion:	164	Resp:	82033
Ion	Ratio	Lower	Upper
164	100		
129	89.7	62.9	116.9
131	83.6	62.1	115.3
166	127.1	89.8	166.8



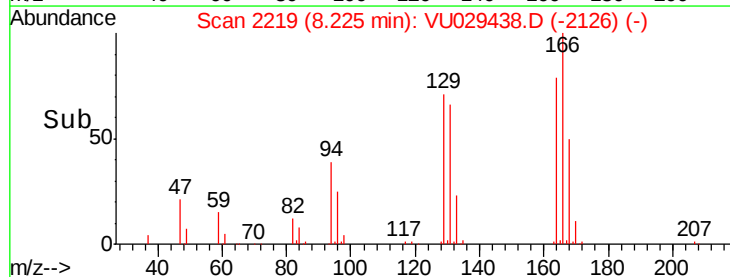
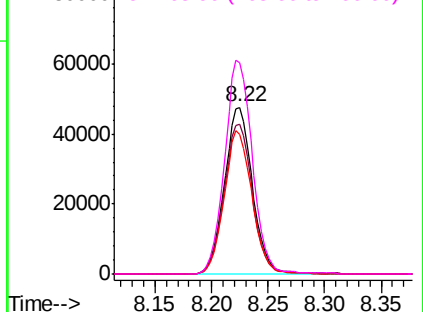
Abundance

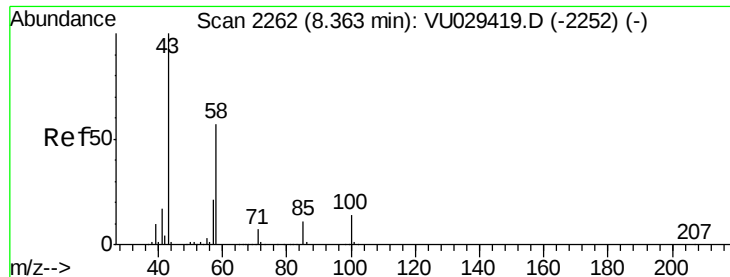
Ion 163.90 (163.60 to 164.60): V

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

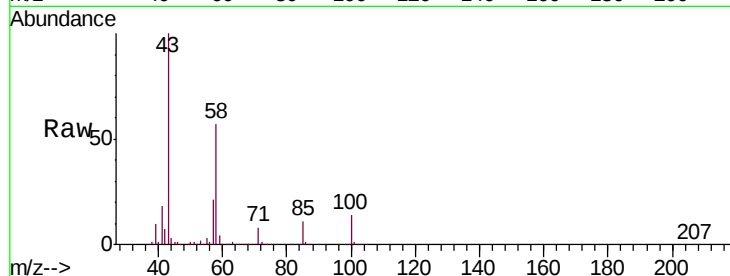




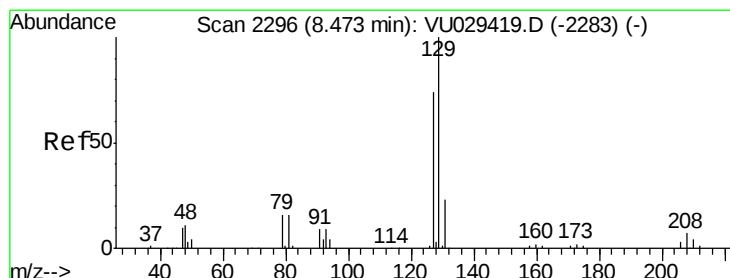
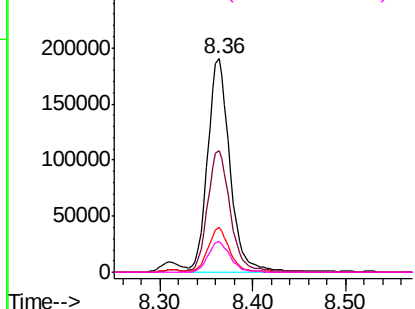
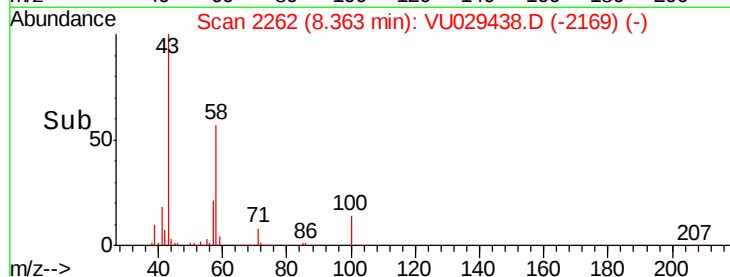
#48
2-Hexanone
Concen: 50.838 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Tgt Ion:	43	Resp:	315645
Ion	Ratio	Lower	Upper
43	100		
58	58.0	45.7	68.5
57	20.1	16.4	24.6
100	14.4	11.1	16.7

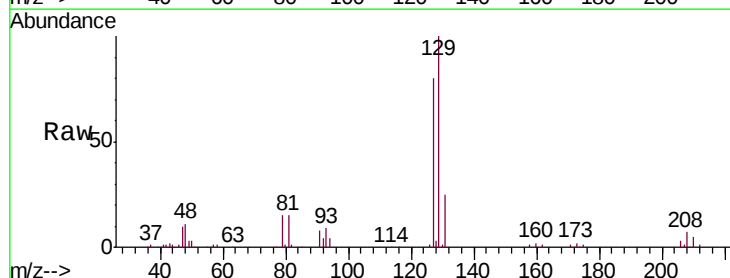


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

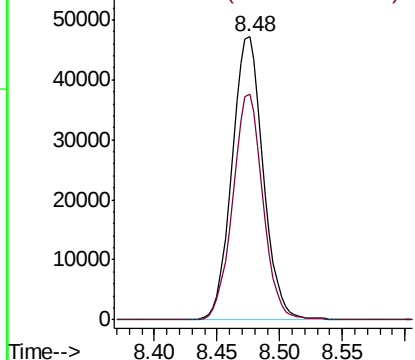
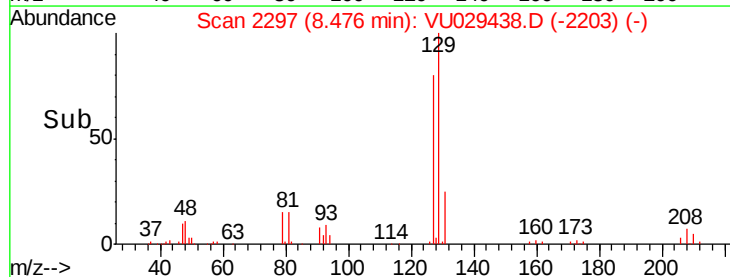


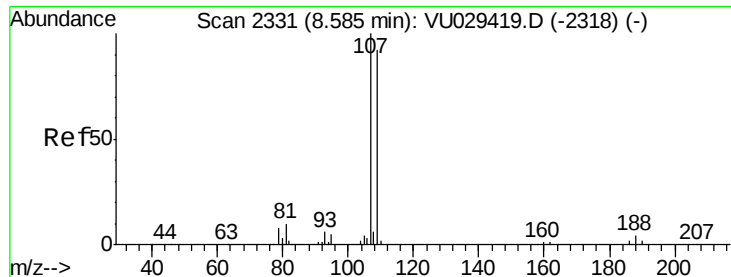
#49
Dibromochloromethane
Concen: 5.331 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion:	129	Resp:	81345
Ion	Ratio	Lower	Upper
129	100		
127	79.9	53.3	99.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

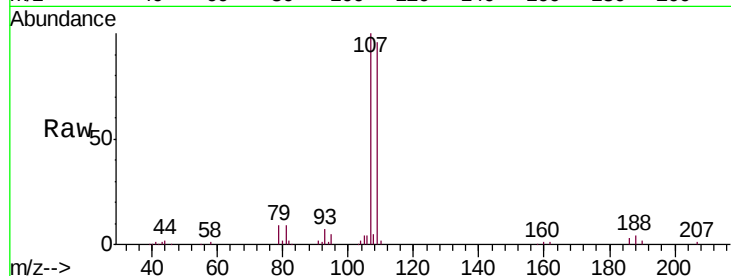




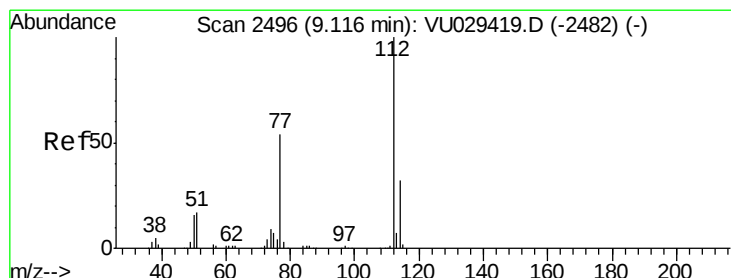
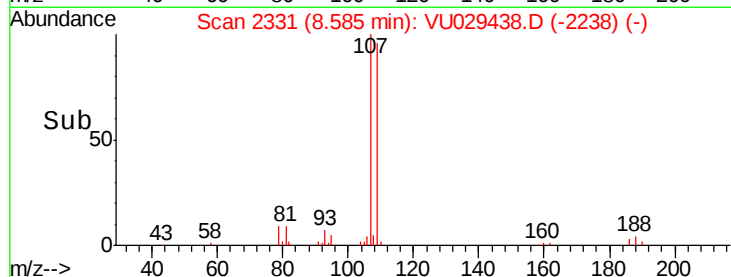
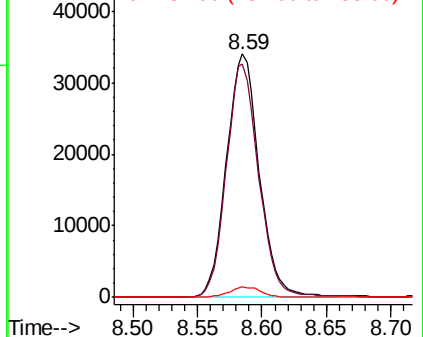
#50
 1,2-Dibromoethane
 Concen: 5.360 ug/L
 RT: 8.59 min Scan# 2331
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

Tgt Ion:107 Resp: 60050
 Ion Ratio Lower Upper
 107 100
 109 95.8 64.1 119.1
 188 4.2 3.7 5.5

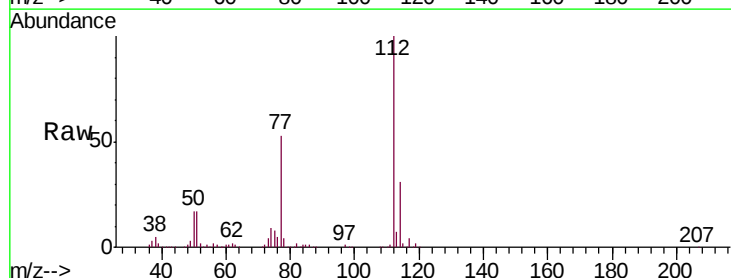


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

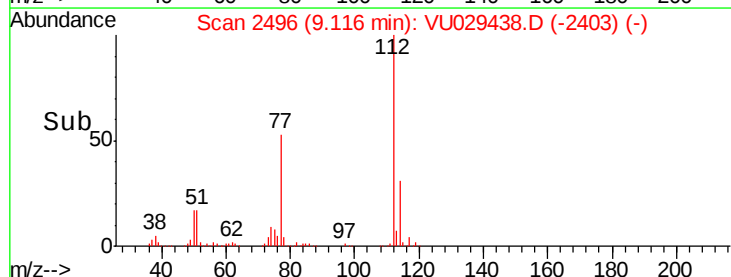
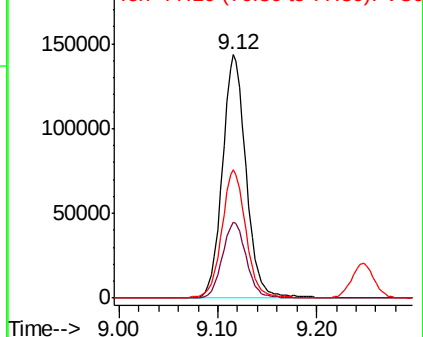


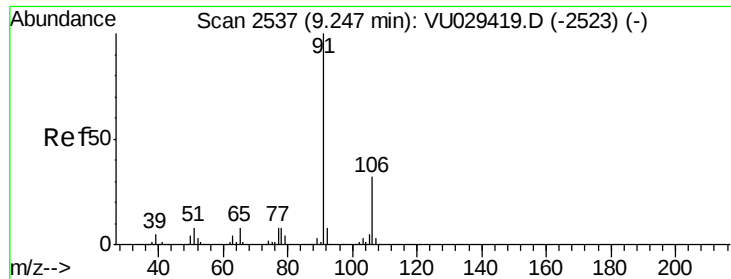
#51
 Chlorobenzene
 Concen: 5.309 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Tgt Ion:112 Resp: 241785
 Ion Ratio Lower Upper
 112 100
 114 31.1 22.9 42.5
 77 52.6 41.8 62.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V

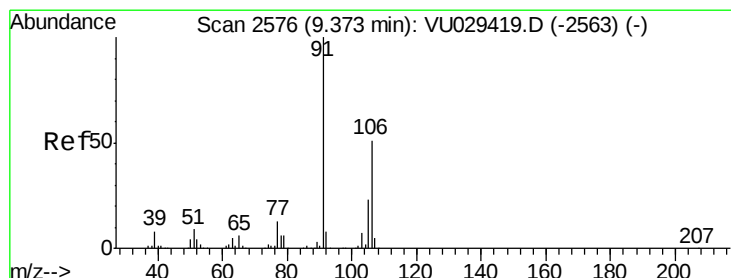
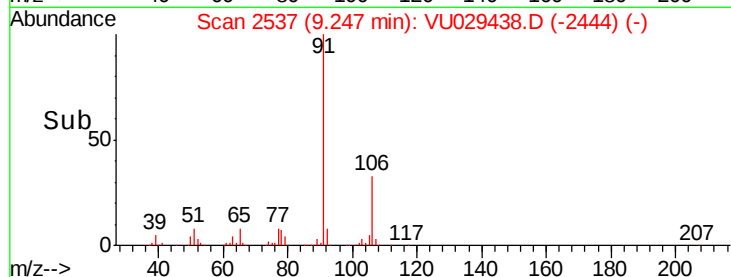
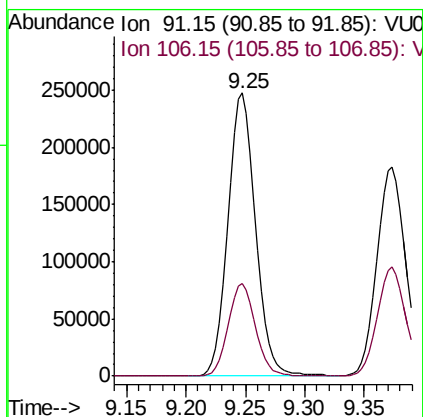
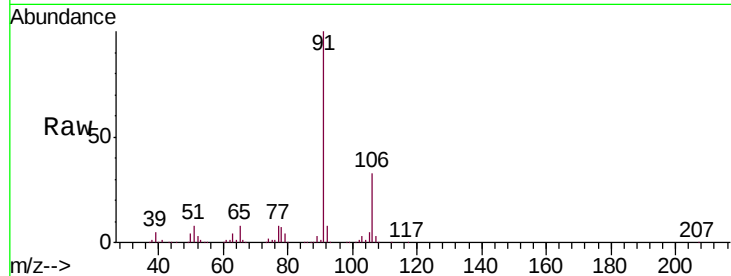




#52
Ethylbenzene
Concen: 5.304 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

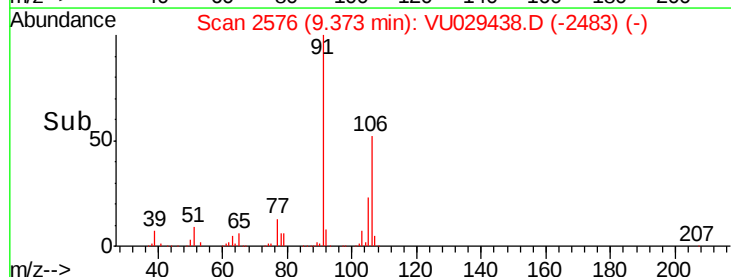
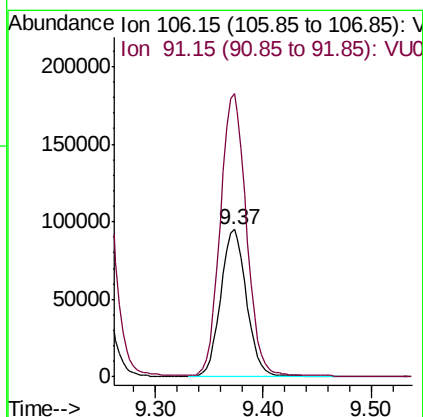
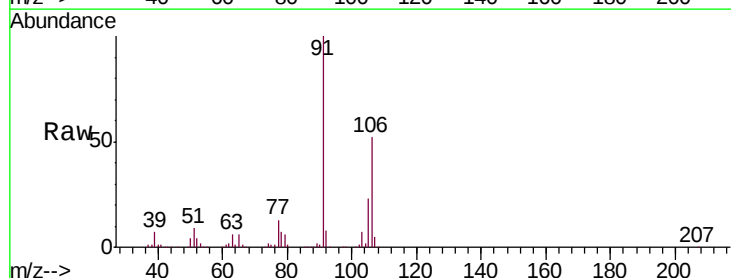
Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

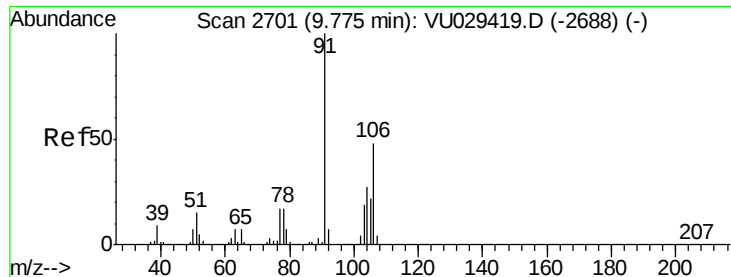
Tgt Ion: 91 Resp: 397706
Ion Ratio Lower Upper
91 100
106 32.8 22.8 42.4



#53
m,p-xylene
Concen: 5.288 ug/L
RT: 9.37 min Scan# 2576
Delta R.T. -0.00 min
Lab File: VU029438.D
Acq: 13 Feb 2019 10:32

Tgt Ion: 106 Resp: 158147
Ion Ratio Lower Upper
106 100
91 191.8 135.7 251.9





#54

o-xylene

Concen: 5.276 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

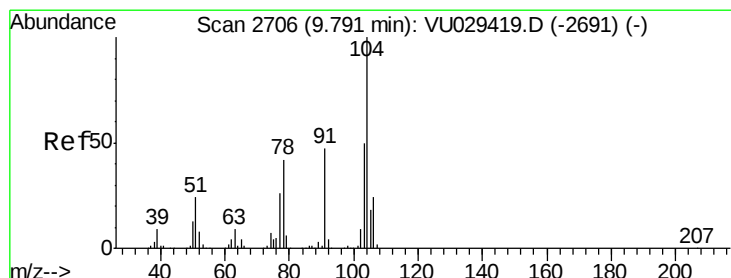
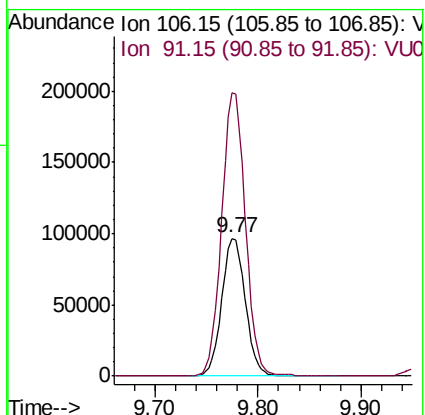
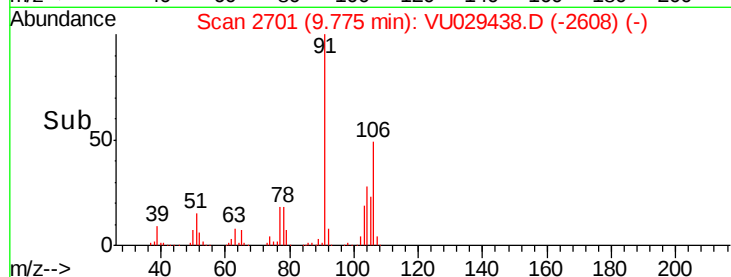
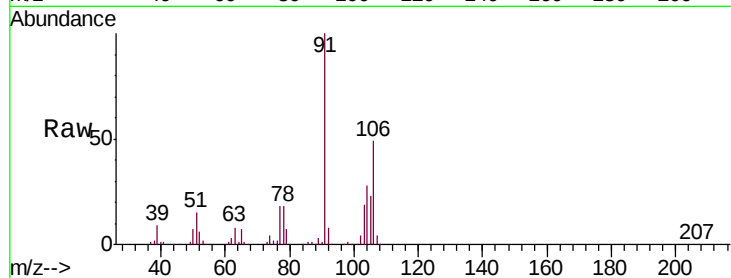
VSTD00553

Tgt Ion:106 Resp: 154847

Ion Ratio Lower Upper

106 100

91 205.2 145.1 269.5



#55

Styrene

Concen: 5.264 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VU029438.D

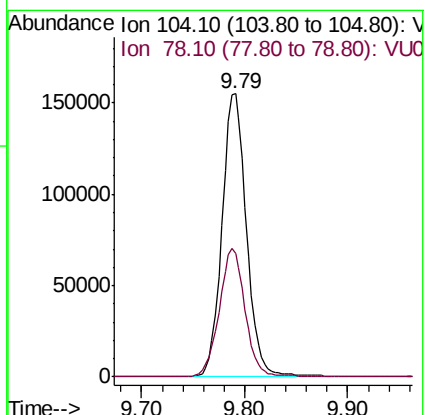
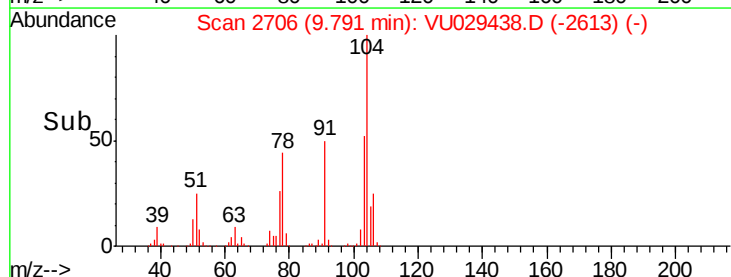
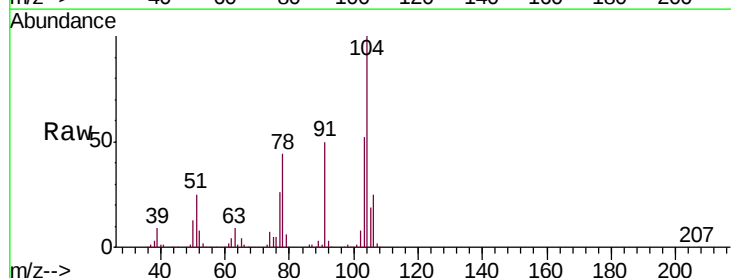
Acq: 13 Feb 2019 10:32

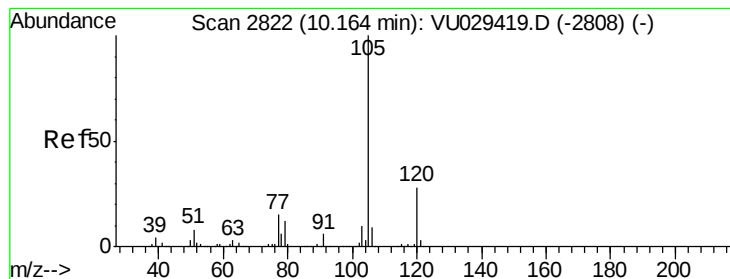
Tgt Ion:104 Resp: 256481

Ion Ratio Lower Upper

104 100

78 43.7 30.5 56.7





#56

Isopropylbenzene

Concen: 5.286 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

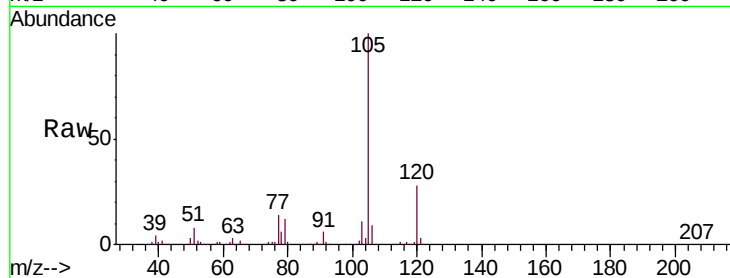
Tgt Ion: 105 Resp: 409232

Ion Ratio Lower Upper

105 100

120 28.3 22.2 33.4

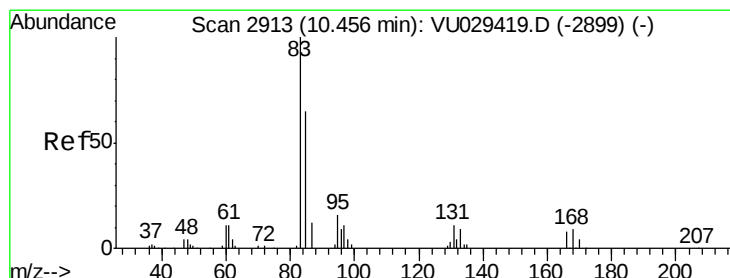
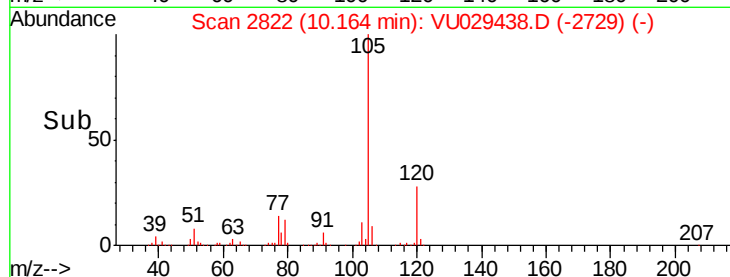
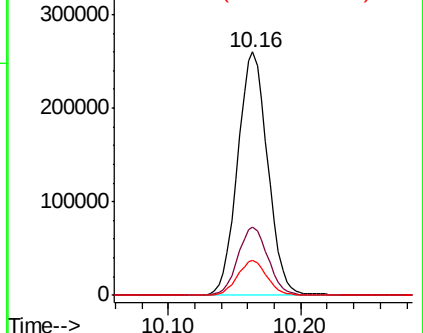
77 14.3 11.5 17.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.281 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

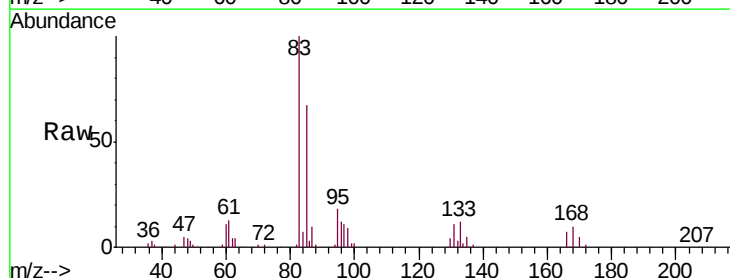
Tgt Ion: 83 Resp: 72963

Ion Ratio Lower Upper

83 100

85 67.1 46.5 86.3

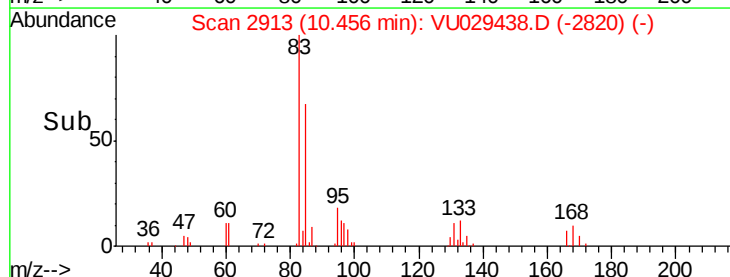
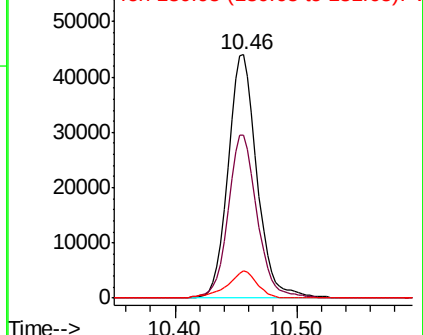
131 11.3 8.3 12.5

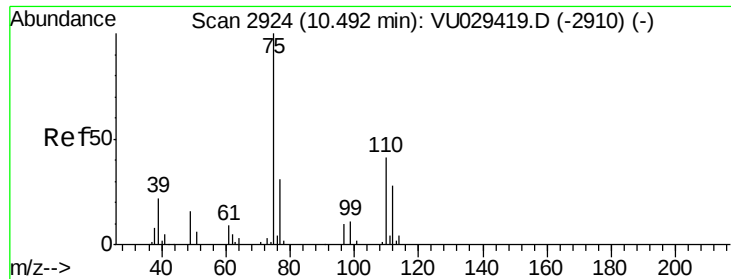


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.337 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

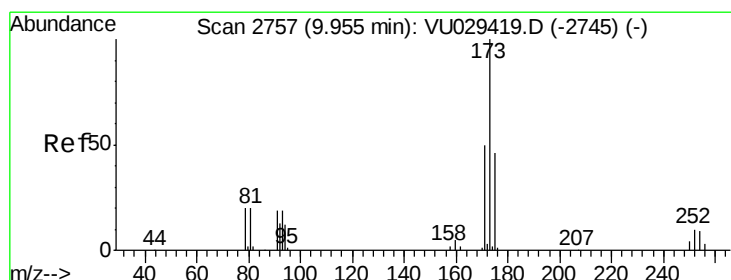
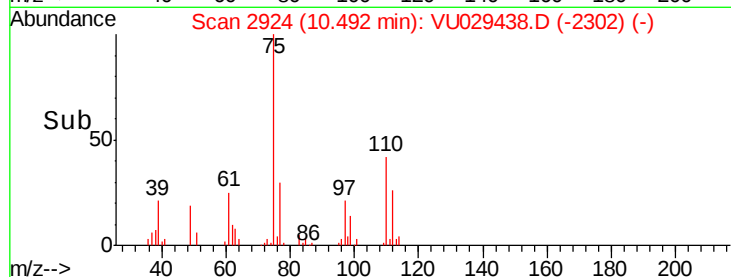
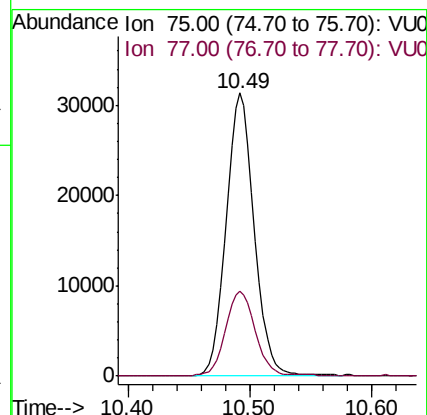
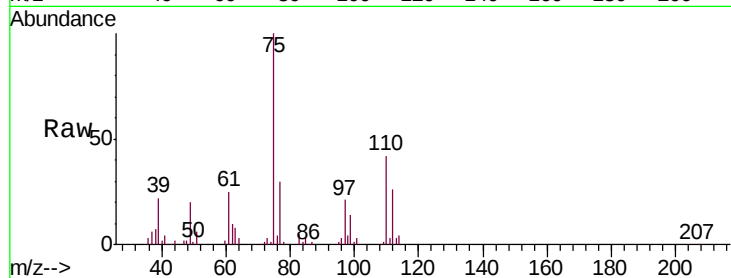
VSTD00553

Tgt Ion: 75 Resp: 50600

Ion Ratio Lower Upper

75 100

77 32.1 28.2 42.2



#61

Bromoform

Concen: 5.247 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

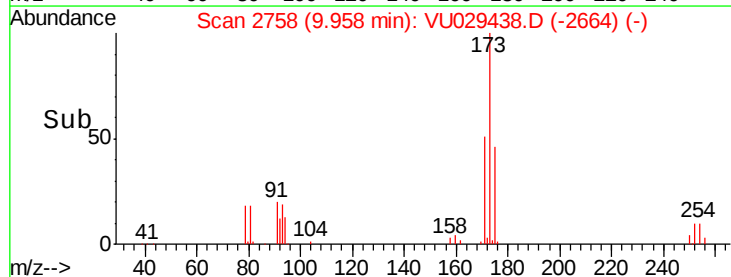
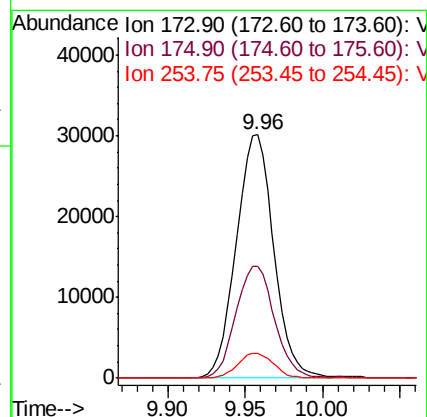
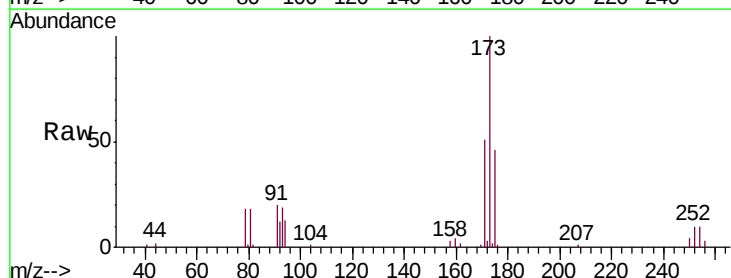
Tgt Ion: 173 Resp: 50757

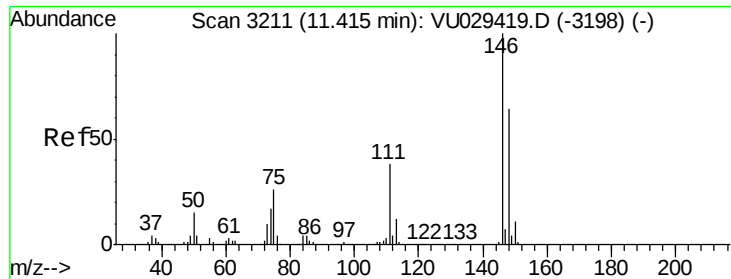
Ion Ratio Lower Upper

173 100

175 47.4 39.2 58.8

254 9.8 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.211 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

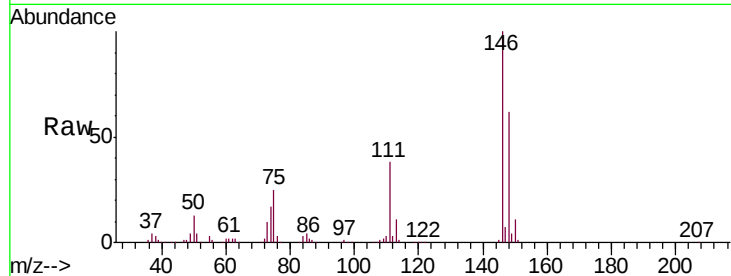
Tgt Ion:146 Resp: 210984

Ion Ratio Lower Upper

146 100

111 37.6 26.1 48.5

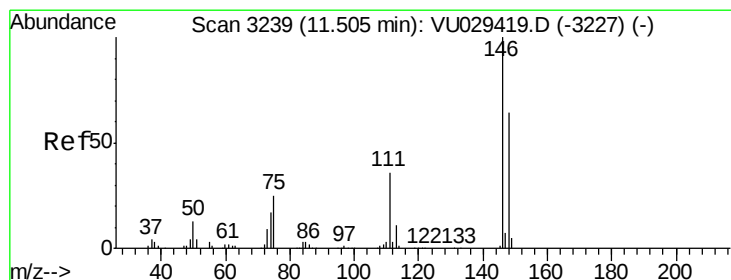
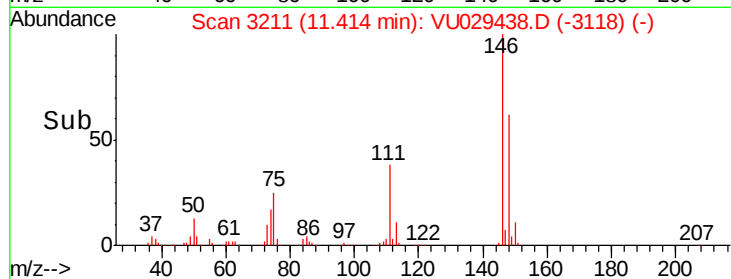
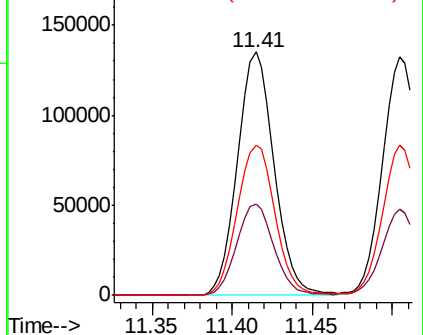
148 61.8 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.282 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

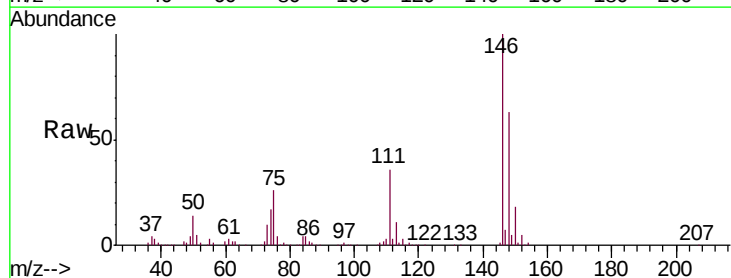
Tgt Ion:146 Resp: 213550

Ion Ratio Lower Upper

146 100

111 36.2 25.6 47.6

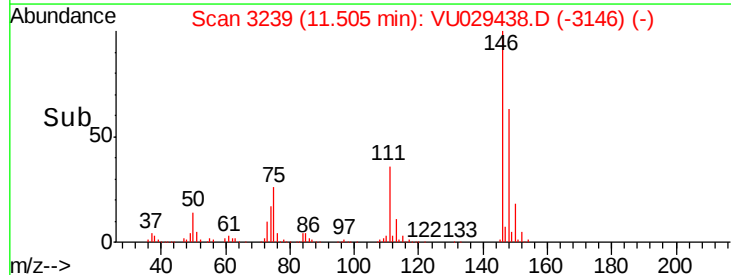
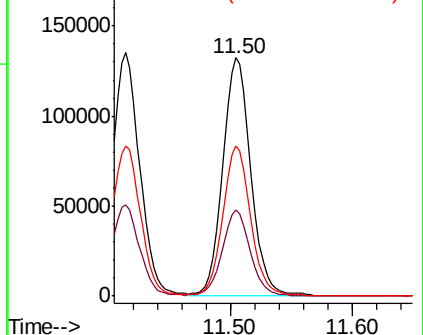
148 63.0 44.2 82.0

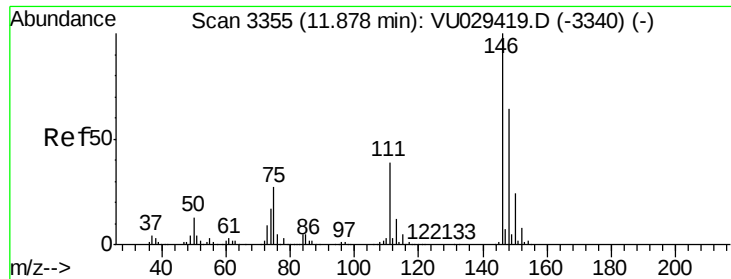


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

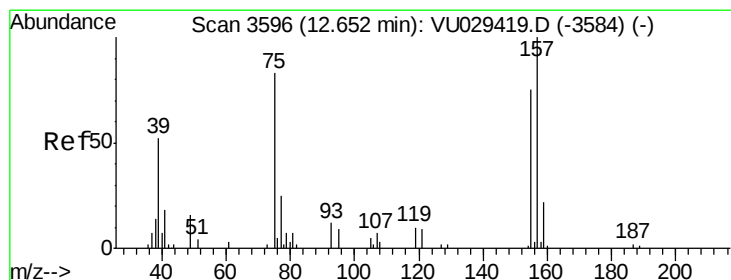
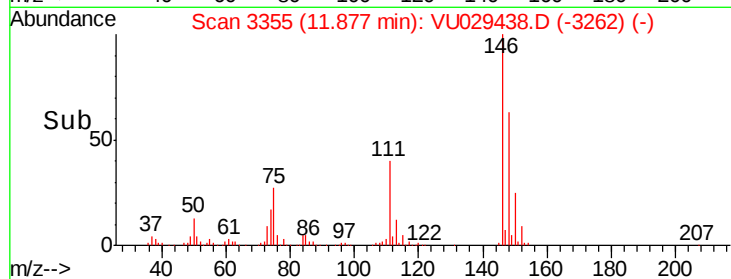
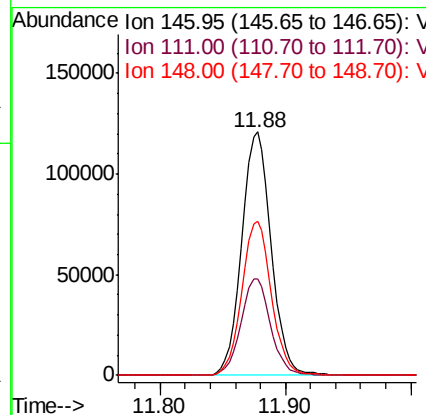
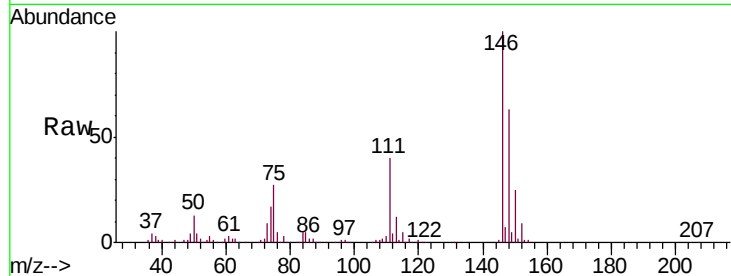




#65
 1,2-Dichlorobenzene
 Concen: 5.163 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

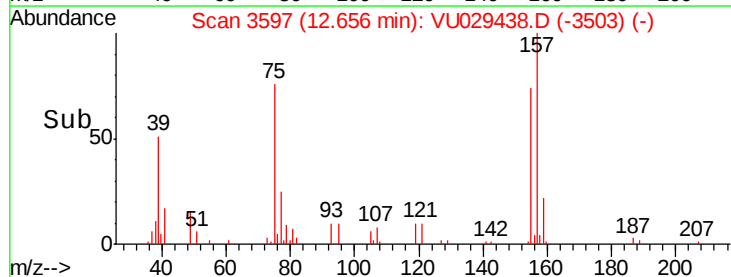
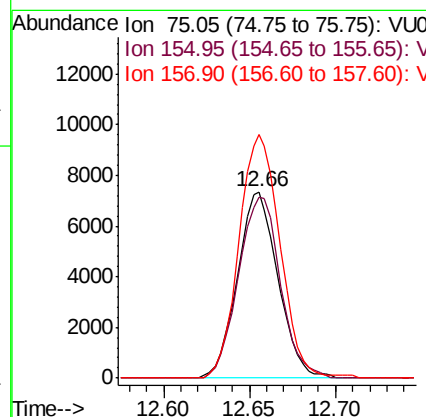
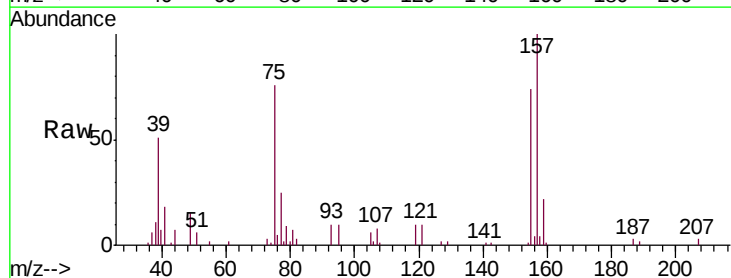
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

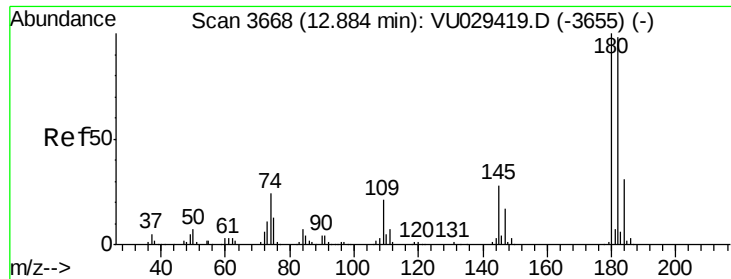
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	30.9	46.3
148	63.4	51.0	76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.061 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.2	75.3	112.9
157	130.9	103.0	154.4

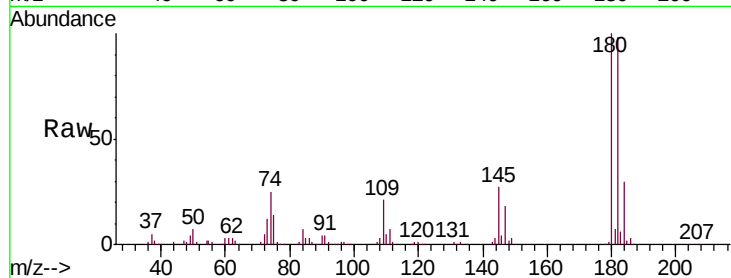




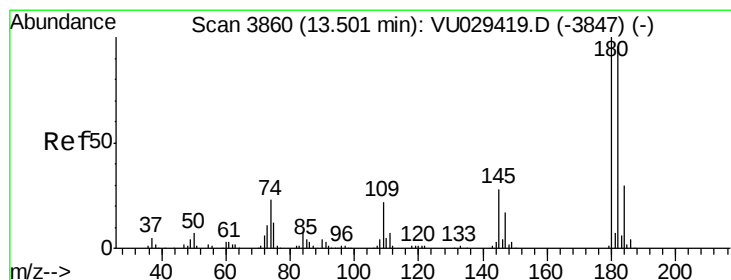
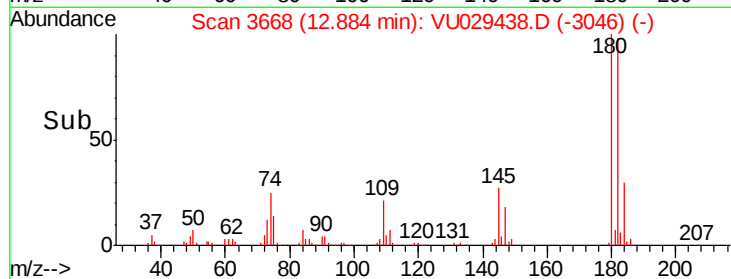
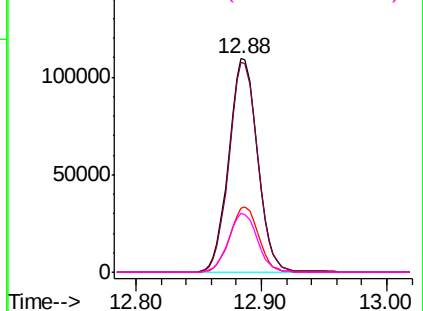
#67
 1,3,5-Trichlorobenzene
 Concen: 5.208 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

Tgt Ion:180 Resp: 174948
 Ion Ratio Lower Upper
 180 100
 182 97.7 76.0 114.0
 184 30.5 24.1 36.1
 145 27.7 22.6 34.0

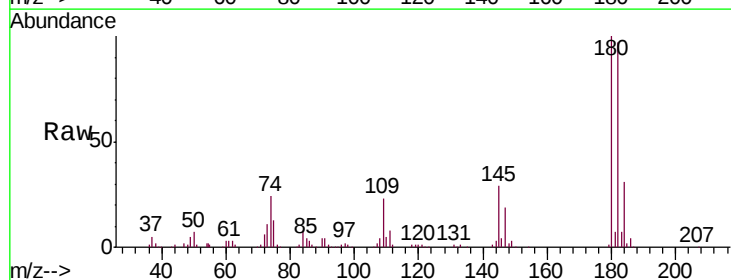


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

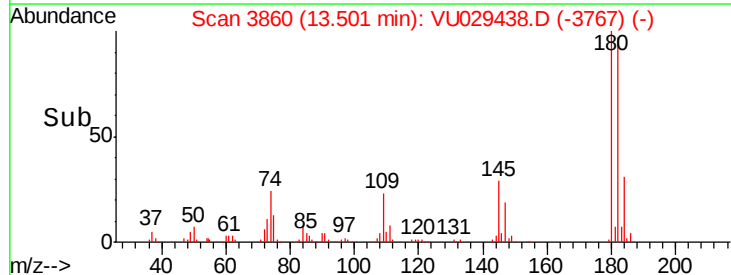
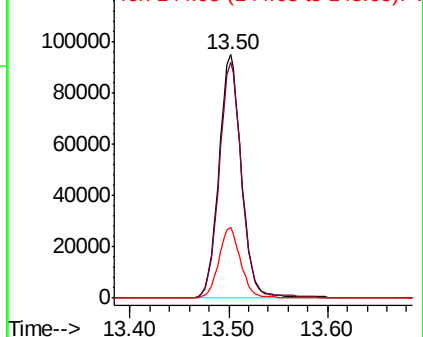


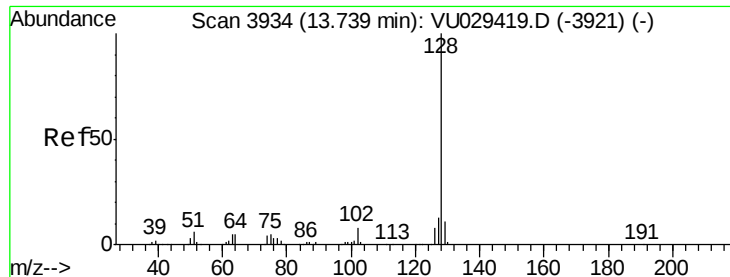
#68
 1,2,4-trichlorobenzene
 Concen: 5.397 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU029438.D
 Acq: 13 Feb 2019 10:32

Tgt Ion:180 Resp: 152699
 Ion Ratio Lower Upper
 180 100
 182 95.3 77.1 115.7
 145 28.1 23.1 34.7



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.115 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

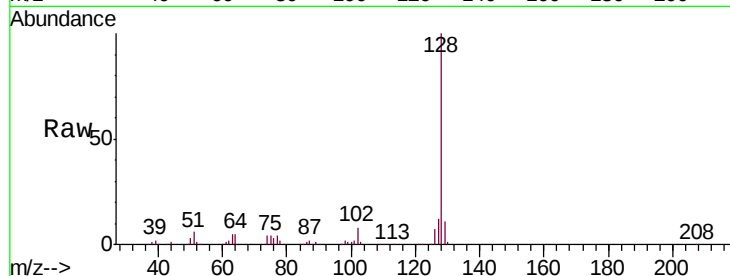
Tgt Ion:128 Resp: 249938

Ion Ratio Lower Upper

128 100

129 10.5 8.7 13.1

127 12.5 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

13.74

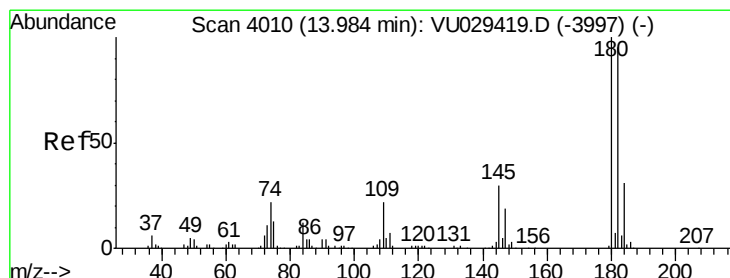
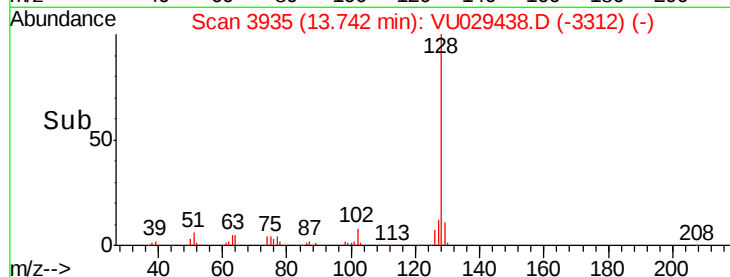
150000

100000

50000

0

Time-->



#70

1,2,3-Trichlorobenzene

Concen: 5.115 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029438.D

Acq: 13 Feb 2019 10:32

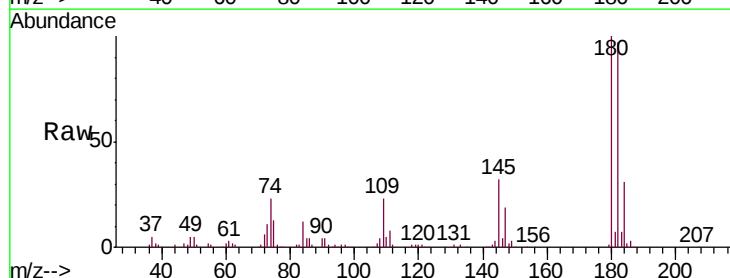
Tgt Ion:180 Resp: 138367

Ion Ratio Lower Upper

180 100

182 96.5 75.9 113.9

145 30.5 23.8 35.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

13.98

100000

80000

60000

40000

20000

0

Time-->

