

Data File : VU028466.D
Acq On : 04 Dec 2018 15:32
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

Quant Time: Dec 05 03:14:44 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM113018WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 05 03:10:52 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	659790	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	632570	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	316682	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	234902	39.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.58%
7) Chloroethane-d5	1.68	69	199489	44.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.04%
11) 1,1-Dichloroethene-d2	2.28	63	461517	43.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.92%
21) 2-Butanone-d5	4.17	46	426808	88.10	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.10%
24) Chloroform-d	4.65	84	439461	46.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.30%
26) 1,2-Dichloroethane-d4	5.30	65	278111	42.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.78%
32) Benzene-d6	5.34	84	895941	45.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.98%
36) 1,2-Dichloropropane-d6	6.33	67	315709	44.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.86%
41) Toluene-d8	7.56	98	804523	45.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.16%
43) trans-1,3-Dichloropropene-	7.85	79	148077	46.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.30%
47) 2-Hexanone-d5	8.31	63	316795	92.31	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.31%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	420650	46.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.62%
64) 1,2-Dichlorobenzene-d4	11.86	152	302460	47.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.98%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	256264	43.438	ug/L	99
3) Chloromethane	1.33	50	371637	43.598	ug/L	98
5) Vinyl chloride	1.40	62	323063	44.313	ug/L	98
6) Bromomethane	1.63	94	114979	56.029	ug/L	98
8) Chloroethane	1.70	64	189006	46.179	ug/L	100
9) Trichlorofluoromethane	1.89	101	347817	46.844	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	216907	50.325	ug/L	96
12) 1,1-Dichloroethene	2.29	96	215342	51.719	ug/L	93
13) Acetone	2.32	43	318176	63.132	ug/L	98
14) Carbon disulfide	2.48	76	706705	44.832	ug/L	100
15) Methyl Acetate	2.61	43	319826	42.894	ug/L	97
16) Methylene chloride	2.70	84	255609	47.423	ug/L	91
17) trans-1,2-Dichloroethene	2.98	96	231172	48.992	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	776057	47.329	ug/L	97
19) 1,1-Dichloroethane	3.45	63	467912	45.906	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	267531	49.296	ug/L	95
22) 2-Butanone	4.26	43	465153	73.727	ug/L	95

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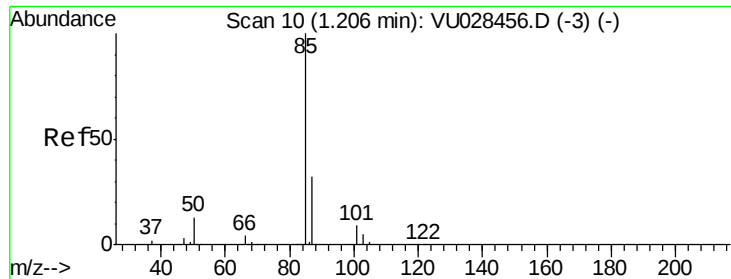
Quant Time: Dec 05 03:14:44 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM113018WMA.M
Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	121163	51.034	ug/L	89
25) Chloroform	4.67	83	438286	46.963	ug/L	99
27) 1,2-Dichloroethane	5.40	62	345259	44.689	ug/L	98
29) Cyclohexane	5.00	56	460120	44.819	ug/L	95
30) 1,1,1-Trichloroethane	4.91	97	352726	47.108	ug/L	98
31) Carbon tetrachloride	5.13	117	280249	46.470	ug/L	100
33) Benzene	5.39	78	1027963	47.308	ug/L	100
34) Trichloroethene	6.18	95	254844	49.049	ug/L	96
35) Methylcyclohexane	6.41	83	433643	47.946	ug/L	97
37) 1,2-Dichloropropane	6.43	63	298921	46.397	ug/L	99
38) Bromodichloromethane	6.76	83	328043	45.887	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	426508	46.624	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	859261	84.331	ug/L	97
42) Toluene	7.64	91	1065463	48.180	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	399457	47.655	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	246018	49.104	ug/L	95
46) Tetrachloroethene	8.22	164	186133	50.943	ug/L	99
48) 2-Hexanone	8.36	43	664818	77.661	ug/L	97
49) Dibromochloromethane	8.48	129	241192	47.062	ug/L	96
50) 1,2-Dibromoethane	8.58	107	256765	47.678	ug/L	98
51) Chlorobenzene	9.12	112	661947	50.180	ug/L	97
52) Ethylbenzene	9.25	91	1194065	48.881	ug/L	99
53) m,p-Xylene	9.37	106	436833	50.138	ug/L	96
54) o-xylene	9.78	106	428603	49.666	ug/L	96
55) Styrene	9.79	104	741126	50.126	ug/L	97
56) Isopropylbenzene	10.16	105	1128618	49.575	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	431539	46.174	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	333976	45.667	ug/L	99
61) Bromoform	9.96	173	175070	44.942	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	520399	50.419	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	520084	50.037	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	504041	49.199	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	89424	43.328	ug/L	92
67) 1,3,5-Trichlorobenzene	12.89	180	393913	51.879	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	368000	52.038	ug/L	99
69) Naphthalene	13.74	128	1241116	50.332	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	361265	50.716	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 43.438 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

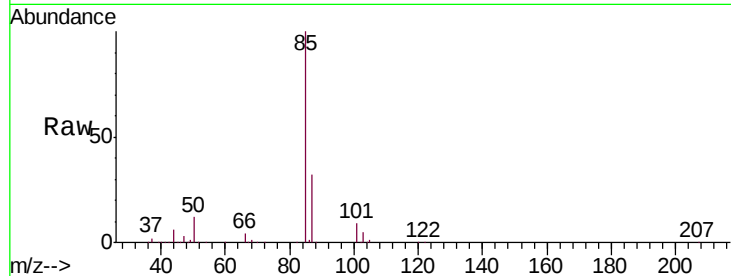
VSTD05041

Tgt Ion: 85 Resp: 256264

Ion Ratio Lower Upper

85 100

87 32.2 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

250000

200000

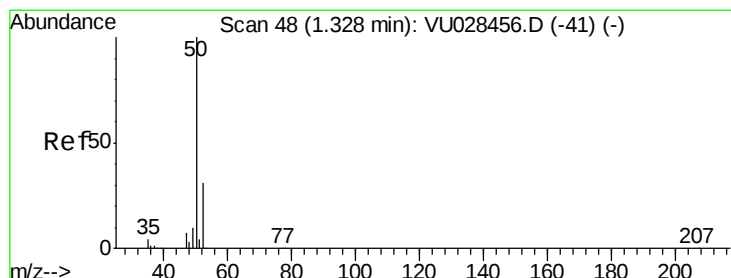
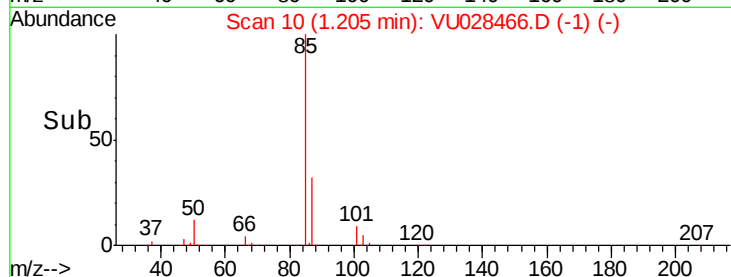
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 43.598 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028466.D

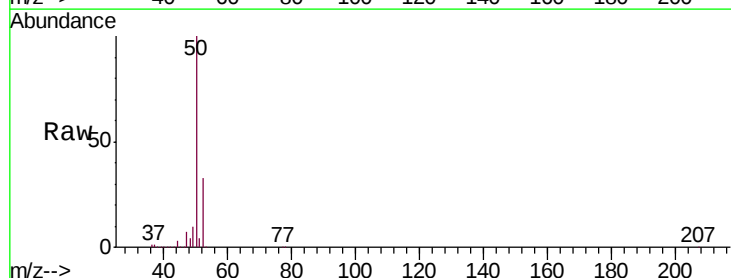
Acq: 04 Dec 2018 15:32

Tgt Ion: 50 Resp: 371637

Ion Ratio Lower Upper

50 100

52 33.3 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.33

400000

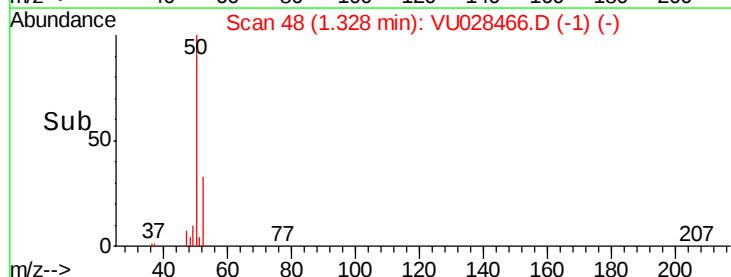
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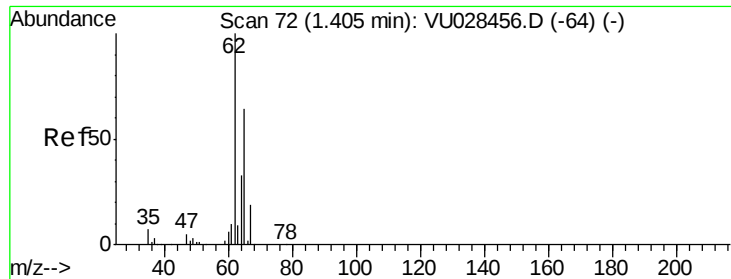
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 44.313 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

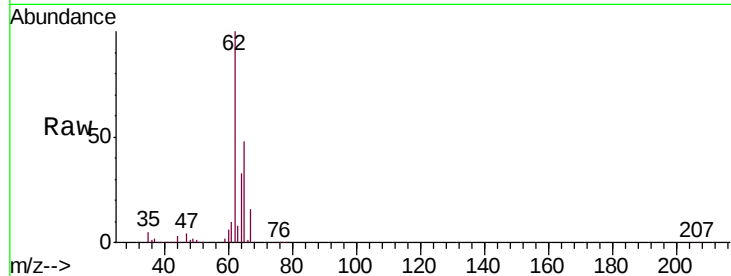
VSTD05041

Tgt Ion: 62 Resp: 323063

Ion Ratio Lower Upper

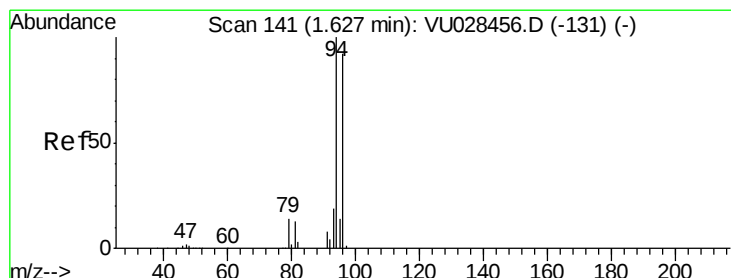
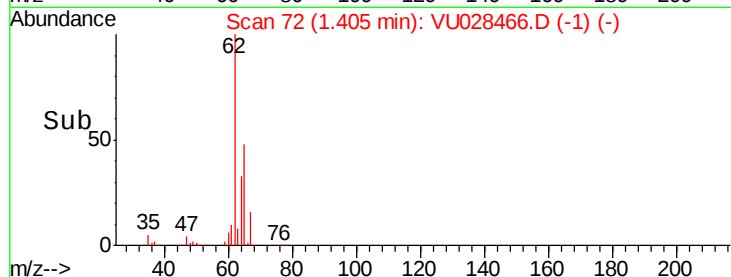
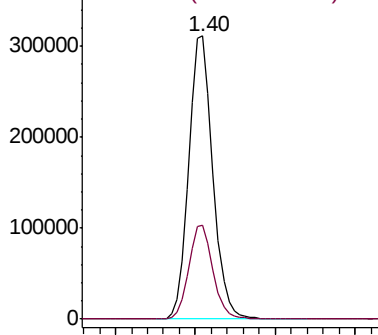
62 100

64 33.3 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 56.029 ug/L

RT: 1.63 min Scan# 141

Delta R.T. -0.00 min

Lab File: VU028466.D

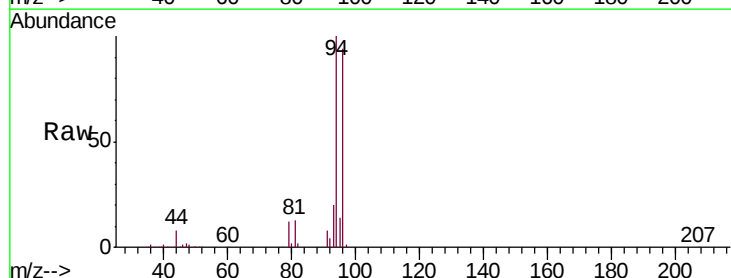
Acq: 04 Dec 2018 15:32

Tgt Ion: 94 Resp: 114979

Ion Ratio Lower Upper

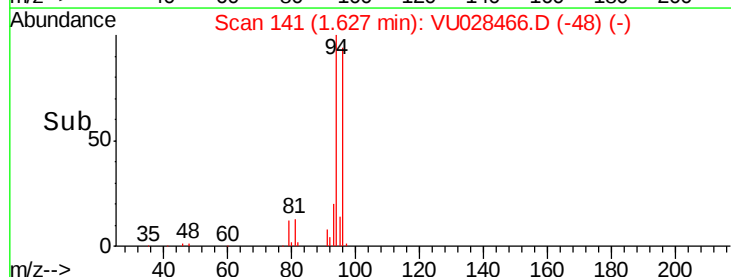
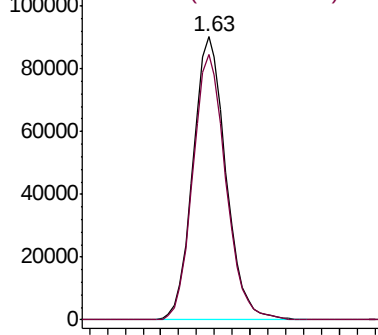
94 100

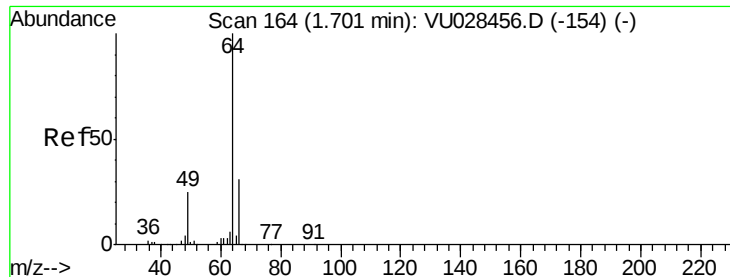
96 94.0 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 46.179 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

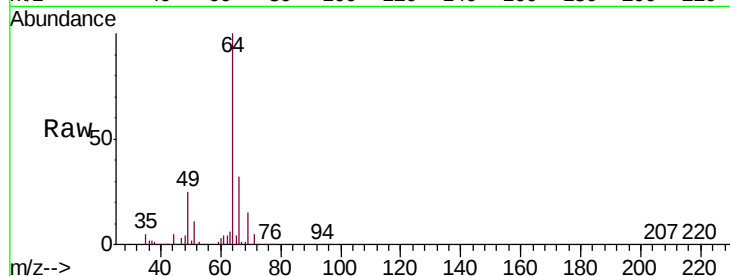
VSTD05041

Tgt Ion: 64 Resp: 189006

Ion Ratio Lower Upper

64 100

66 32.2 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU028456.D (-154) (-)

Ion 66.00 (65.70 to 66.70): VU028456.D (-154) (-)

1.70

150000

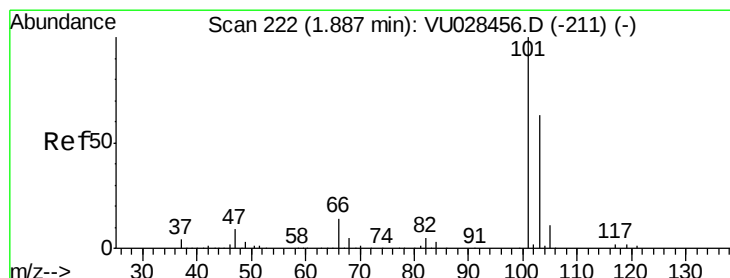
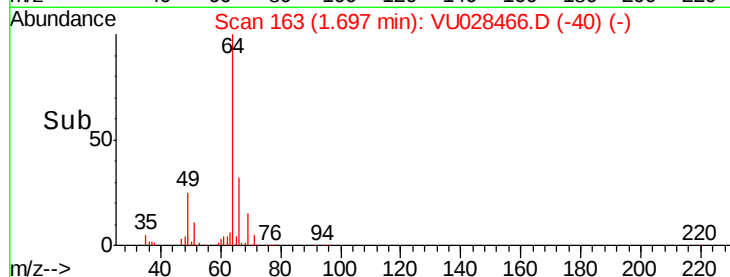
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 46.844 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU028466.D

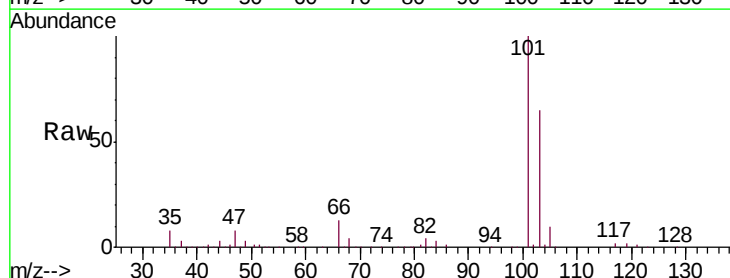
Acq: 04 Dec 2018 15:32

Tgt Ion: 101 Resp: 347817

Ion Ratio Lower Upper

101 100

103 65.0 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU028456.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028456.D (-211) (-)

1.89

250000

200000

150000

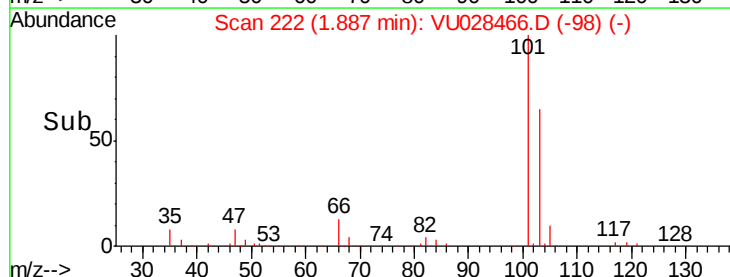
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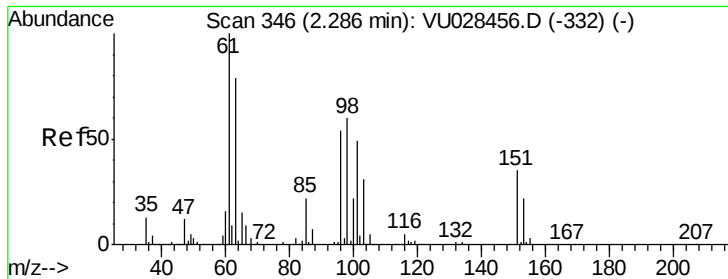
50000

0

1.80 1.85 1.90 1.95 2.00

Time-->





#10

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

Concen: 50.325 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

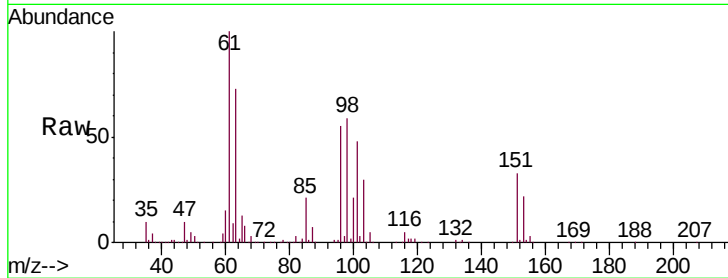
Tgt Ion: 101 Resp: 216907

Ion Ratio Lower Upper

101 100

85 43.1 36.5 54.7

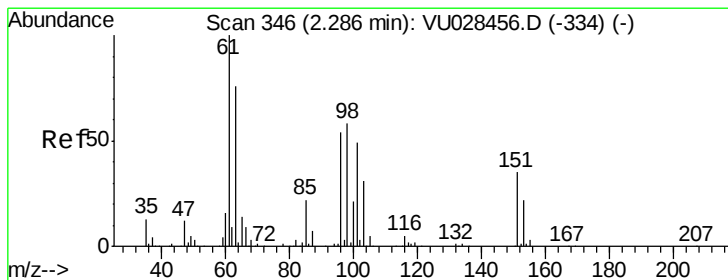
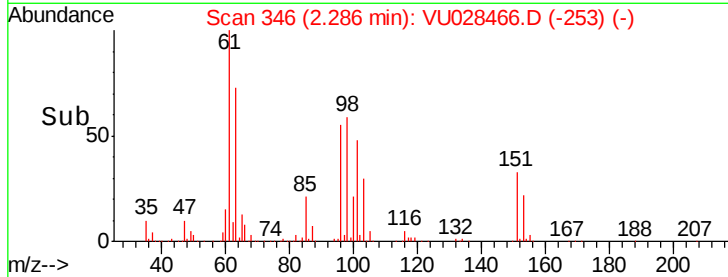
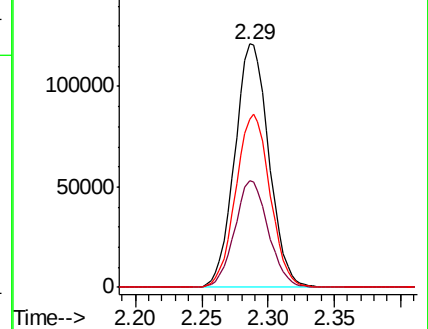
151 71.6 55.0 82.6



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: 51.719 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

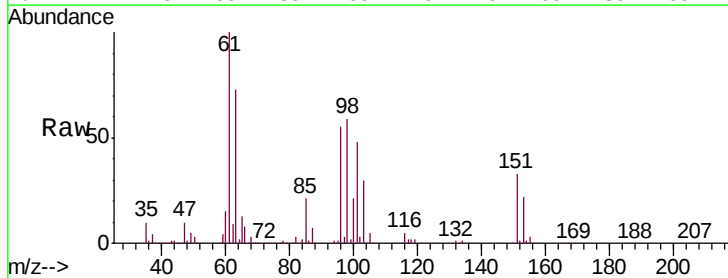
Tgt Ion: 96 Resp: 215342

Ion Ratio Lower Upper

96 100

61 180.6 136.2 252.9

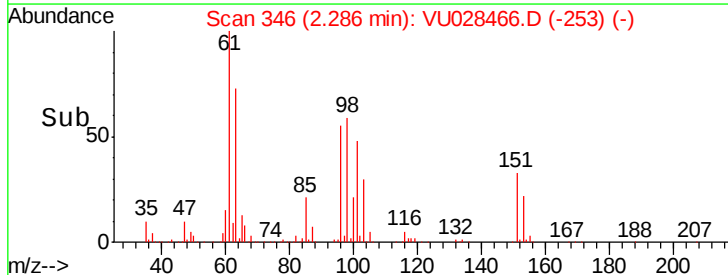
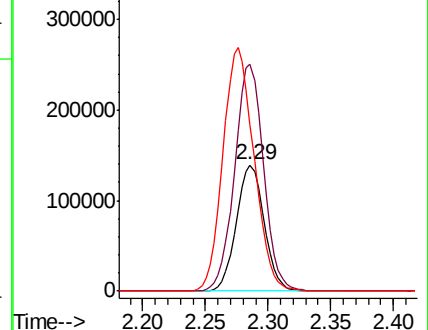
63 132.2 95.5 177.4

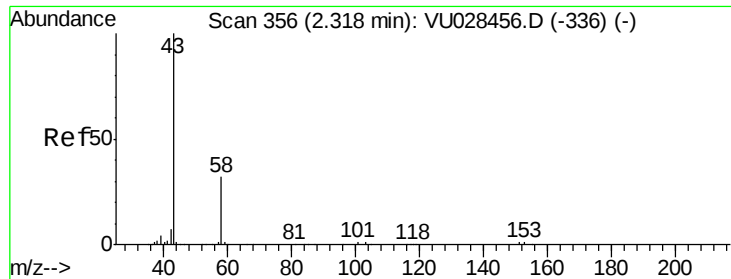


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 63.132 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

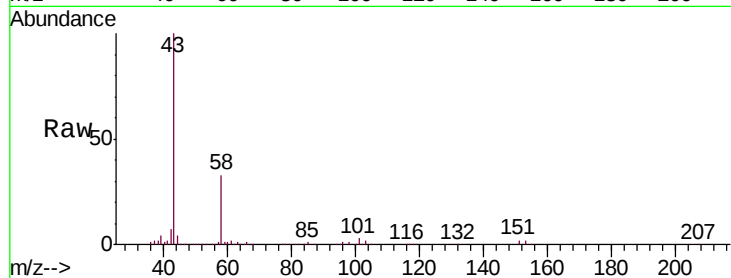
VSTD05041

Tgt Ion: 43 Resp: 318176

Ion Ratio Lower Upper

43 100

58 32.6 0.0 63.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

200000

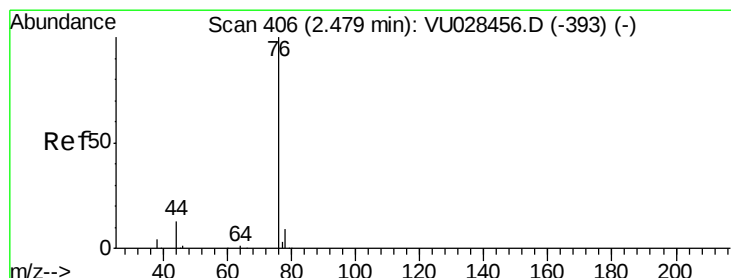
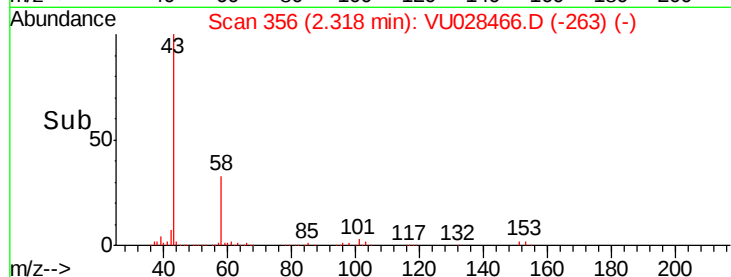
150000

100000

50000

0

Time--> 2.20 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 44.832 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028466.D

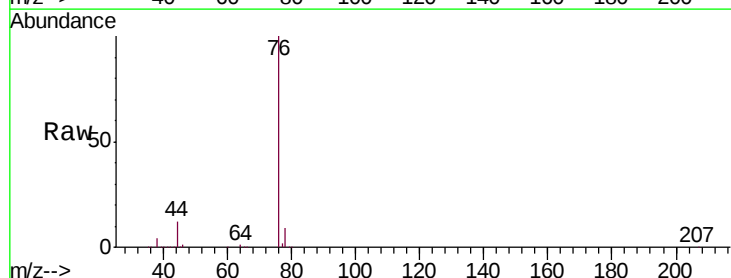
Acq: 04 Dec 2018 15:32

Tgt Ion: 76 Resp: 706705

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

500000

400000

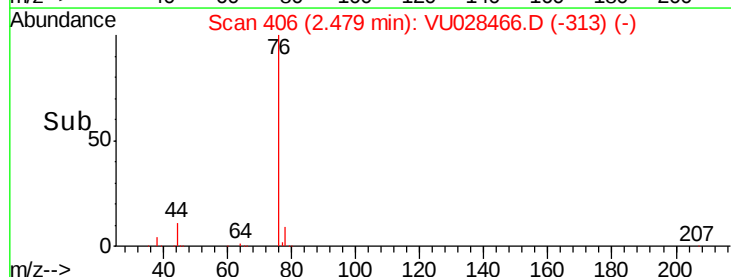
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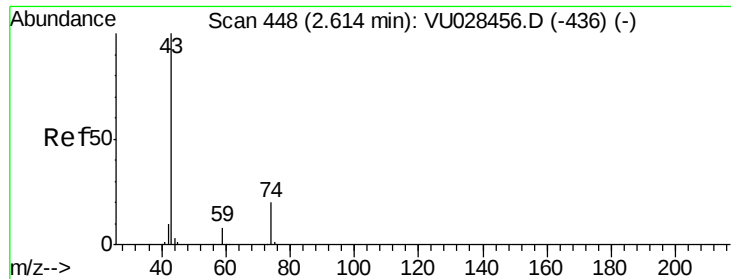
200000

100000

0

Time--> 2.40 2.45 2.50 2.55

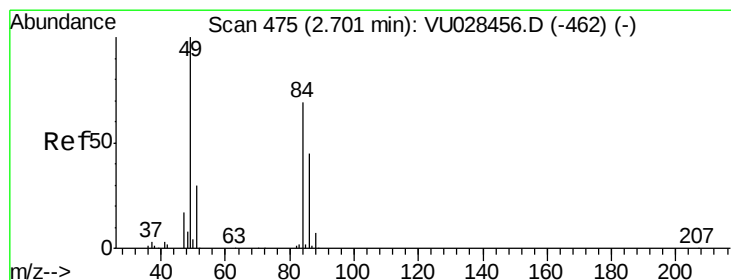
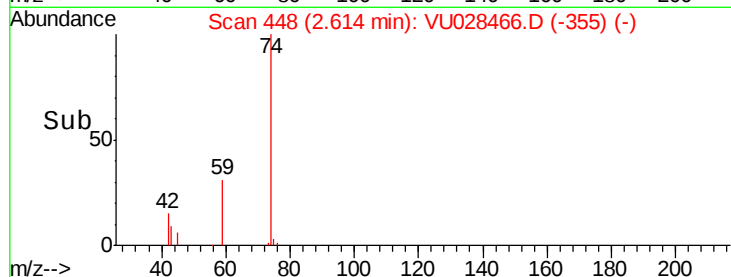
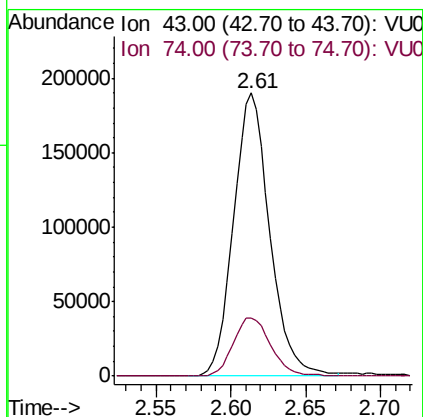
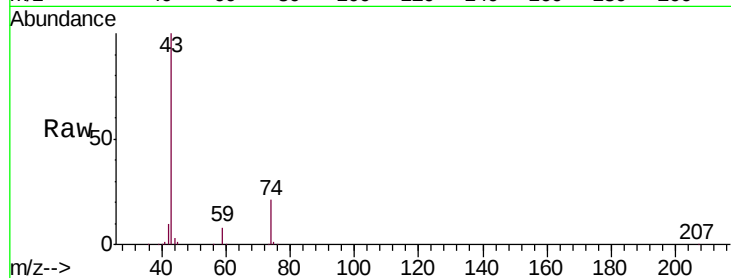




#15
Methyl Acetate
Concen: 42.894 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

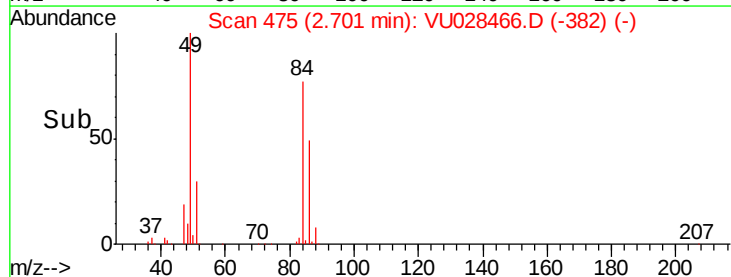
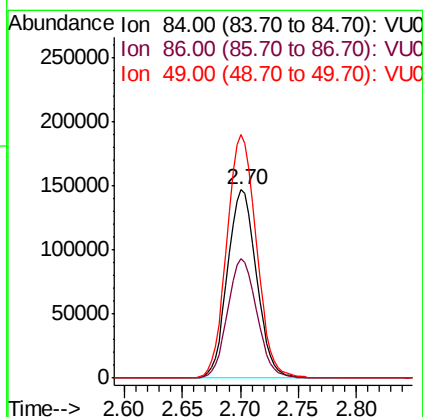
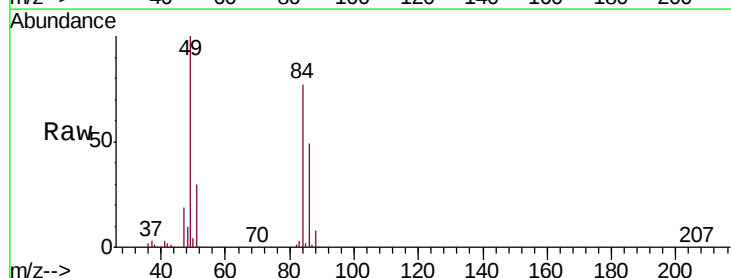
Instrument :
MSVOA_U
ClientSampled :
VSTD05041

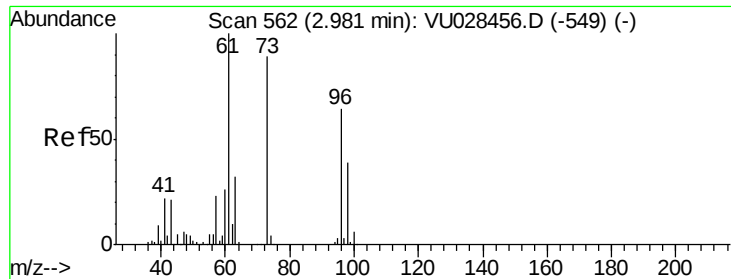
Tgt Ion: 43 Resp: 319826
Ion Ratio Lower Upper
43 100
74 21.6 16.2 24.4



#16
Methylene chloride
Concen: 47.423 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

Tgt Ion: 84 Resp: 255609
Ion Ratio Lower Upper
84 100
86 63.1 45.6 84.8
49 129.2 101.3 188.1





#17

trans-1,2-Dichloroethene

Concen: 48.992 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

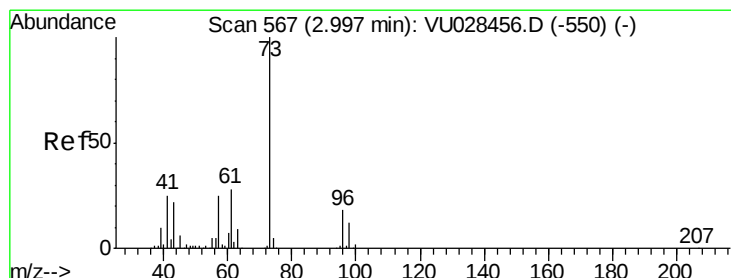
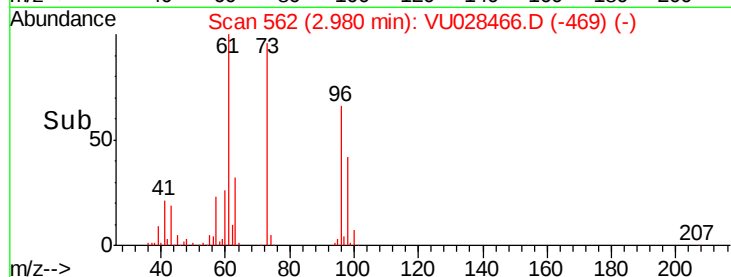
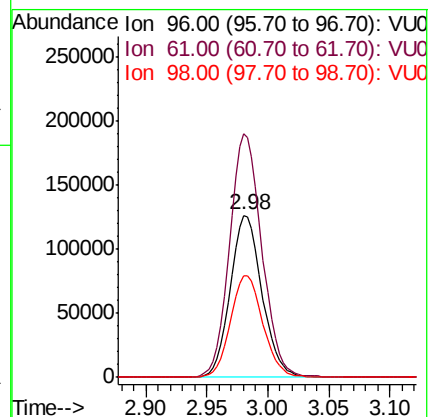
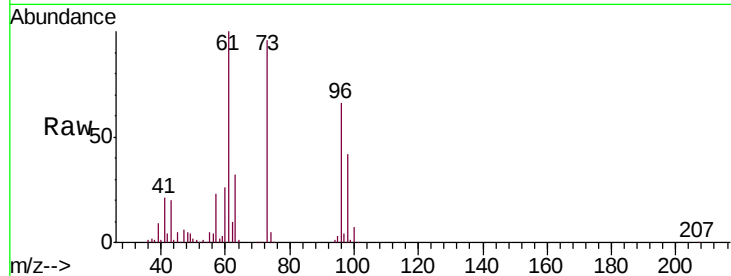
Tgt Ion: 96 Resp: 231172

Ion Ratio Lower Upper

96 100

61 150.4 109.5 203.3

98 62.5 43.3 80.5



#18

Methyl tert-butyl Ether

Concen: 47.329 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

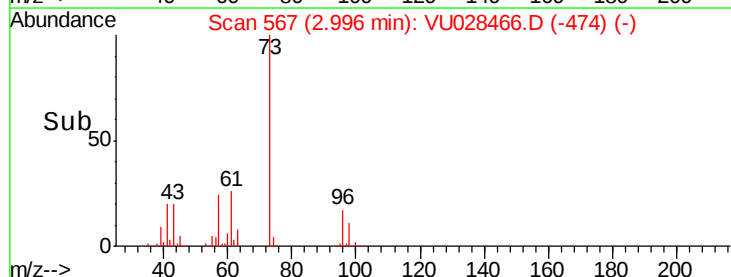
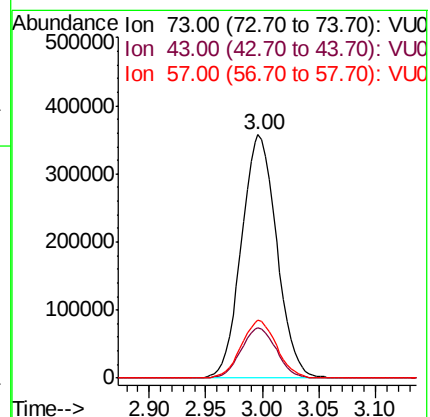
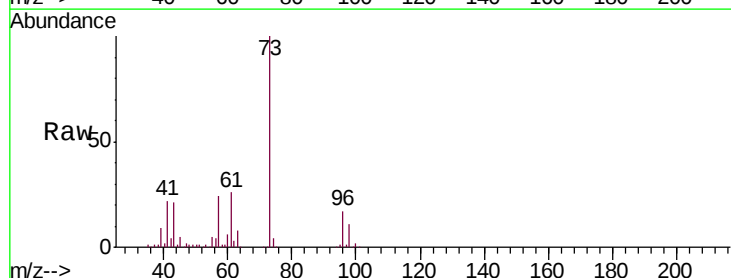
Tgt Ion: 73 Resp: 776057

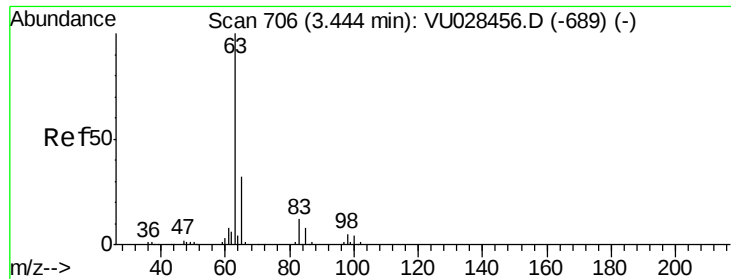
Ion Ratio Lower Upper

73 100

43 20.7 17.9 26.9

57 23.8 19.7 29.5

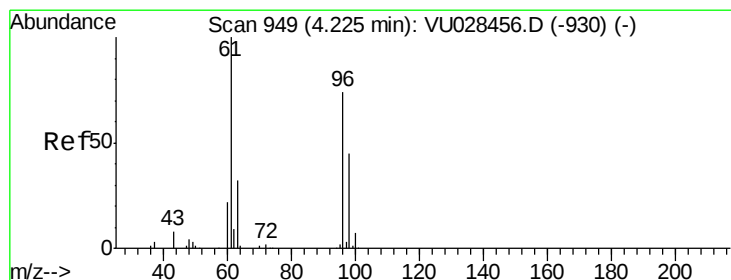
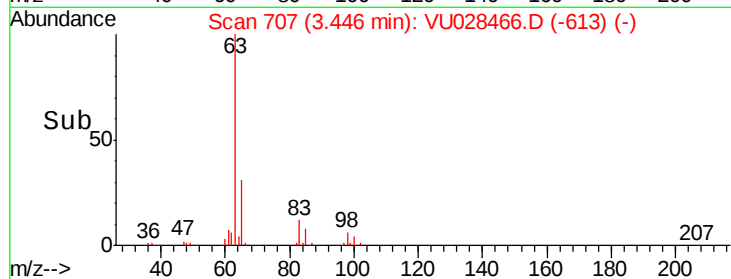
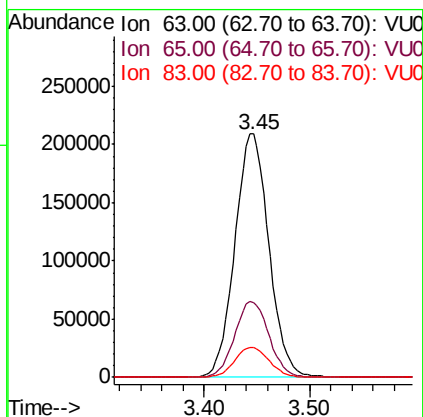
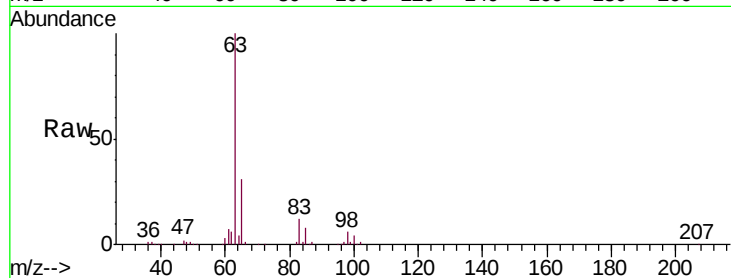




#19
 1,1-Dichloroethane
 Concen: 45.906 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

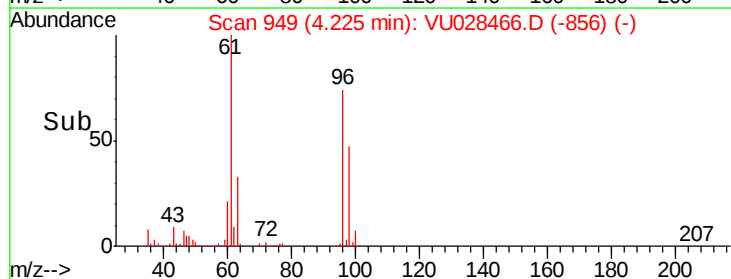
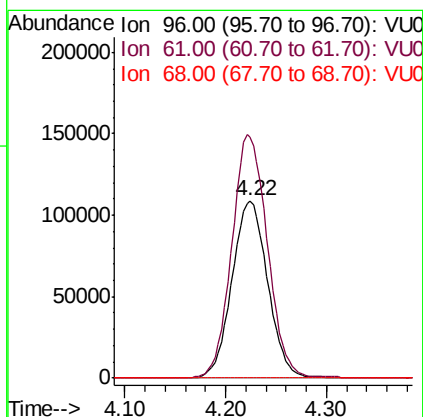
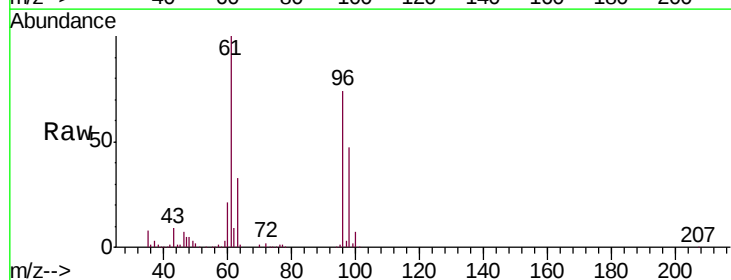
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05041

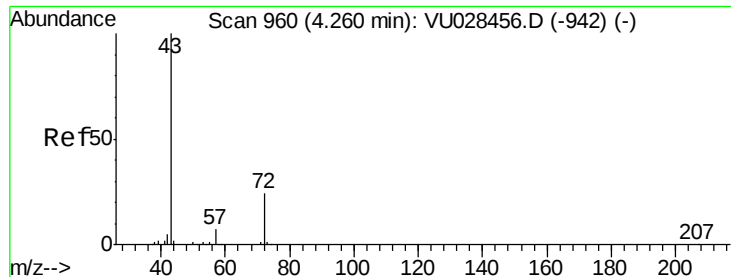
Tgt Ion: 63 Resp: 467912
 Ion Ratio Lower Upper
 63 100
 65 30.9 21.6 40.0
 83 12.3 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 49.296 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Tgt Ion: 96 Resp: 267531
 Ion Ratio Lower Upper
 96 100
 61 135.9 99.8 185.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 73.727 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

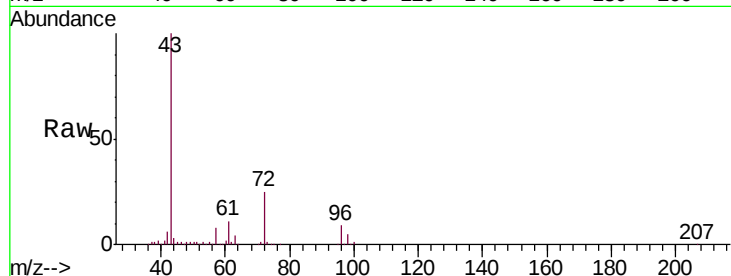
VSTD05041

Tgt Ion: 43 Resp: 465153

Ion Ratio Lower Upper

43 100

72 25.1 11.3 33.9



Abundance Ion 43.00 (42.70 to 43.70): VU028456.D (-942) (-)

Ion 72.00 (71.70 to 72.70): VU028456.D (-942) (-)

4.26

200000

150000

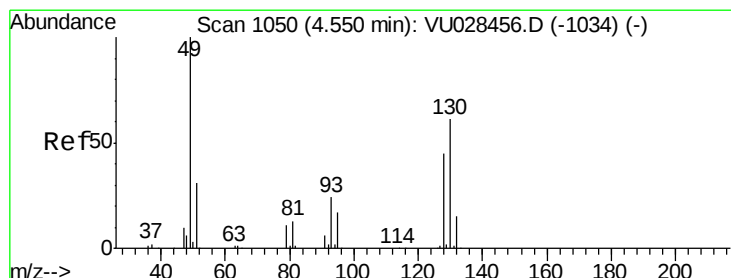
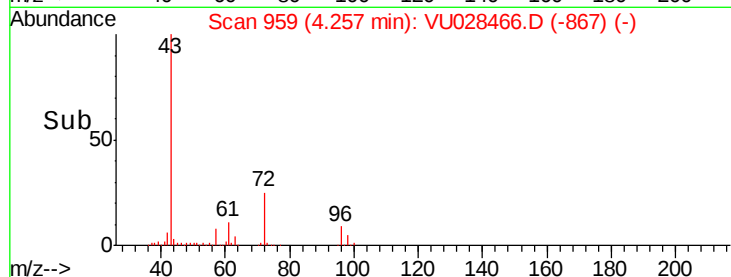
100000

50000

0

4.10 4.20 4.30 4.40 4.50

Time-->



#23

Bromochloromethane

Concen: 51.034 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Tgt Ion: 128 Resp: 121163

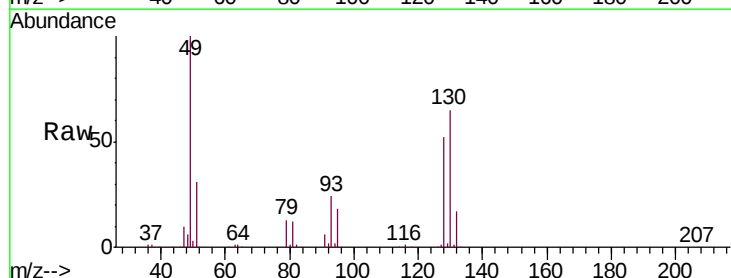
Ion Ratio Lower Upper

128 100

49 193.1 152.5 283.3

130 125.6 89.8 166.8

51 60.6 56.2 84.2



Abundance Ion 128.00 (127.70 to 128.70): VU028456.D (-1034) (-)

Ion 49.00 (48.70 to 49.70): VU028456.D (-1034) (-)

Ion 130.00 (129.70 to 130.70): VU028456.D (-1034) (-)

Ion 51.00 (50.70 to 51.70): VU028456.D (-1034) (-)

150000

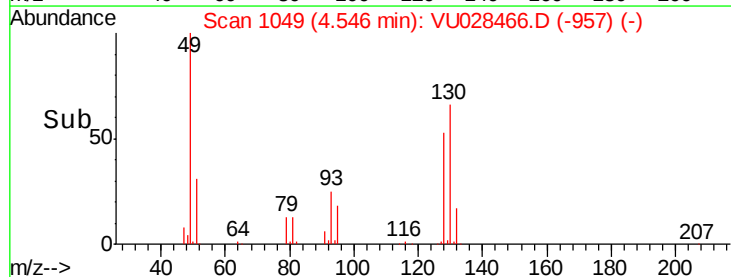
100000

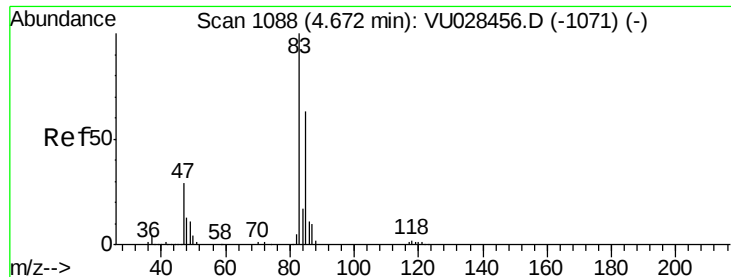
50000

0

4.50 4.55 4.60

Time-->

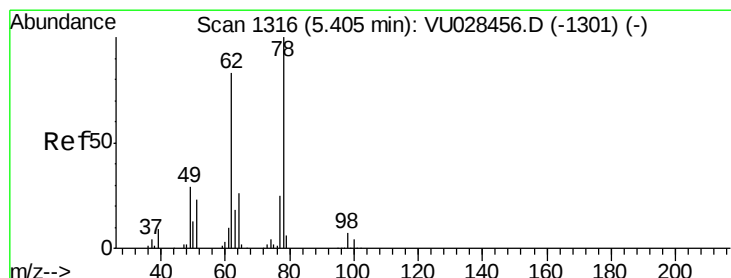
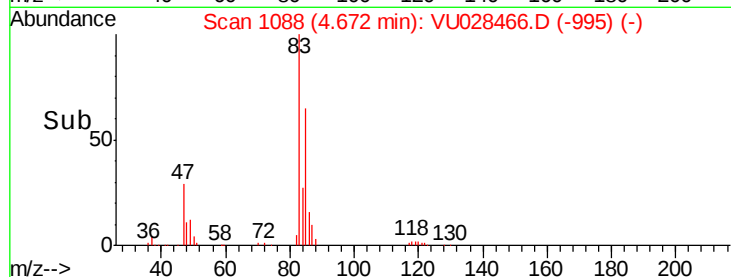
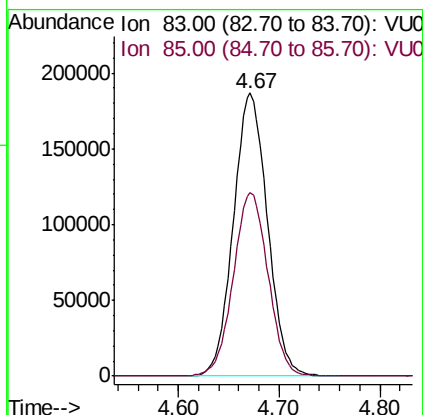
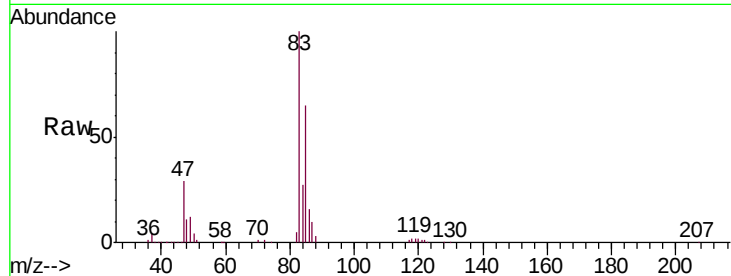




#25
Chloroform
Concen: 46.963 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

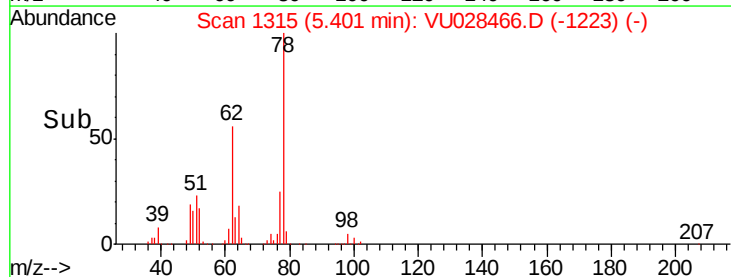
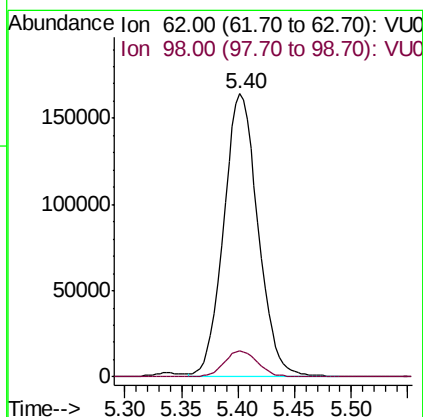
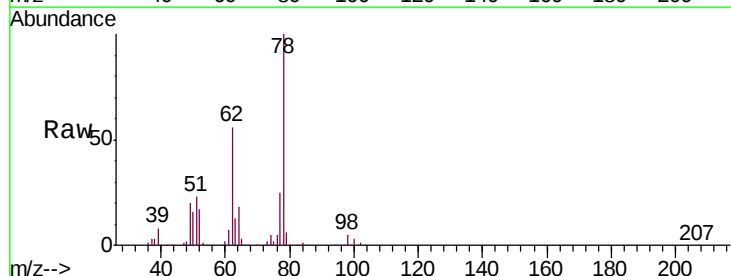
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

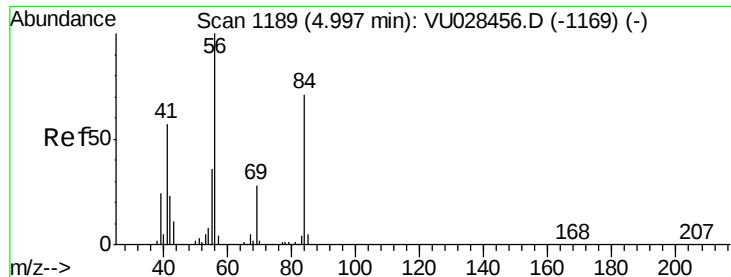
Tgt Ion: 83 Resp: 438286
Ion Ratio Lower Upper
83 100
85 64.8 45.7 84.9



#27
1,2-Dichloroethane
Concen: 44.689 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

Tgt Ion: 62 Resp: 345259
Ion Ratio Lower Upper
62 100
98 9.0 6.7 10.1

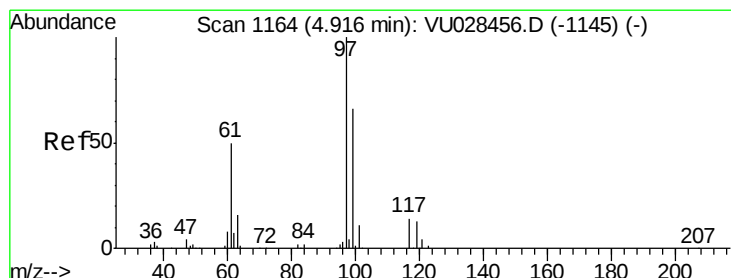
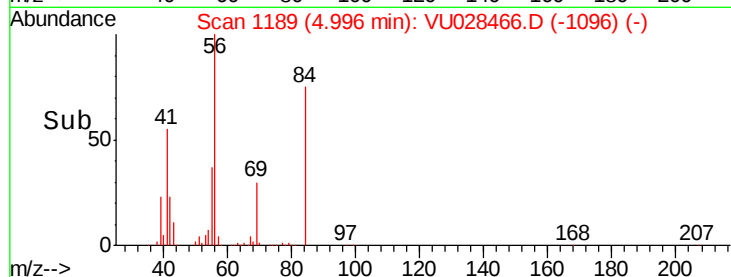
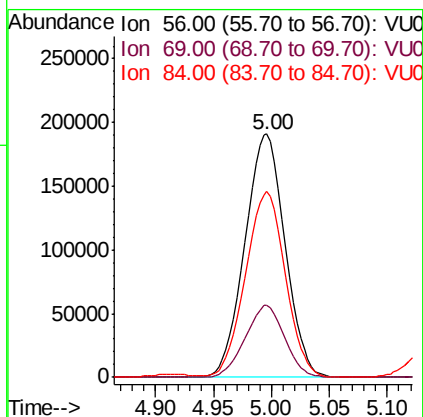
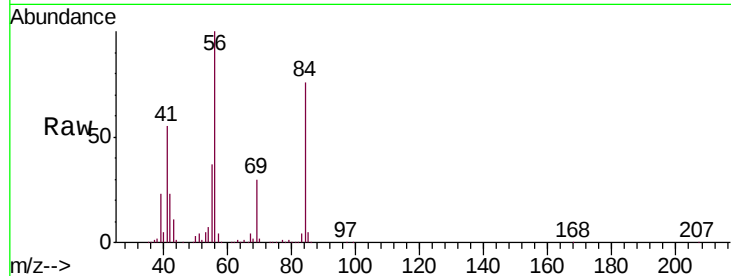




#29
Cyclohexane
Concen: 44.819 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

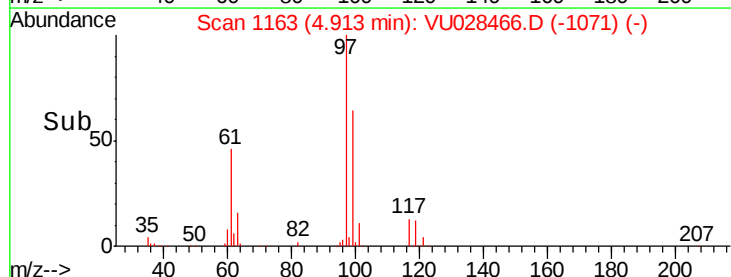
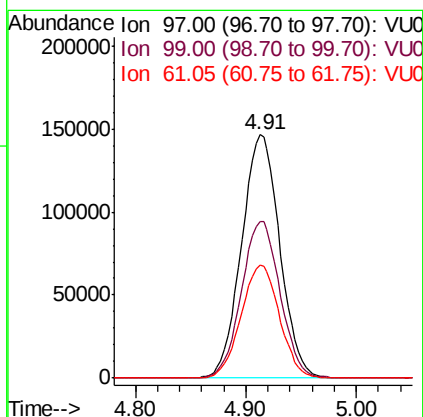
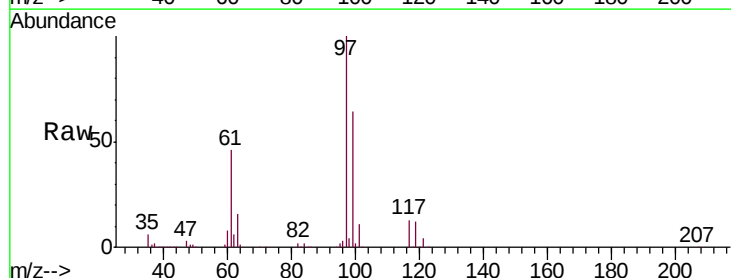
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

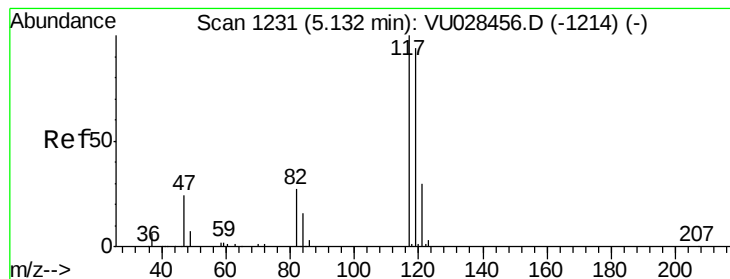
Tgt Ion: 56 Resp: 460120
Ion Ratio Lower Upper
56 100
69 28.9 22.5 33.7
84 75.8 56.6 85.0



#30
1,1,1-Trichloroethane
Concen: 47.108 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

Tgt Ion: 97 Resp: 352726
Ion Ratio Lower Upper
97 100
99 65.1 51.4 77.0
61 46.7 39.3 58.9





#31

Carbon tetrachloride

Concen: 46.470 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

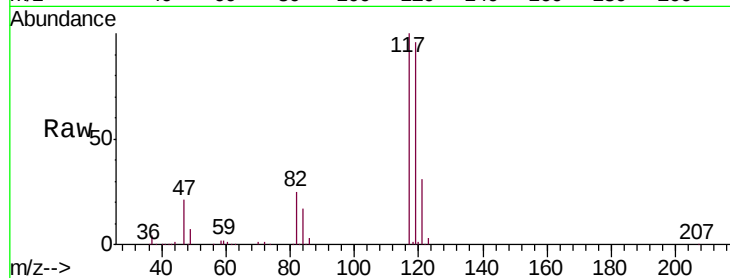
VSTD05041

Tgt Ion:117 Resp: 280249

Ion Ratio Lower Upper

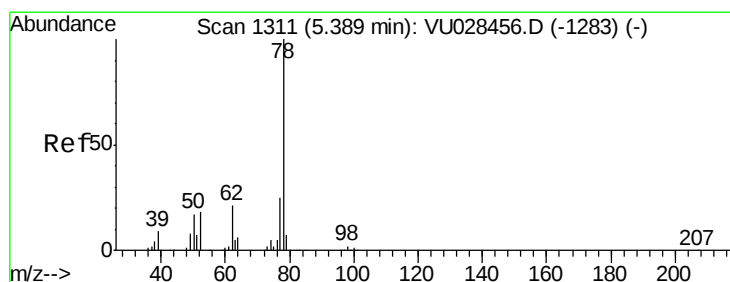
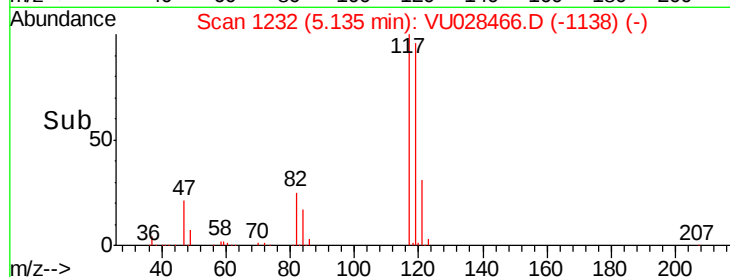
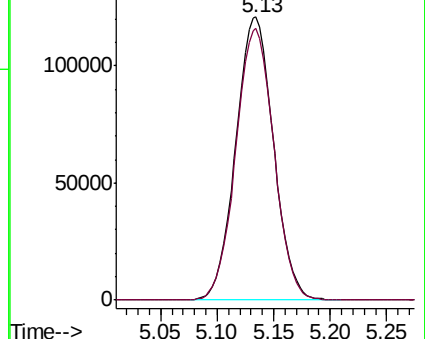
117 100

119 96.8 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.308 ug/L

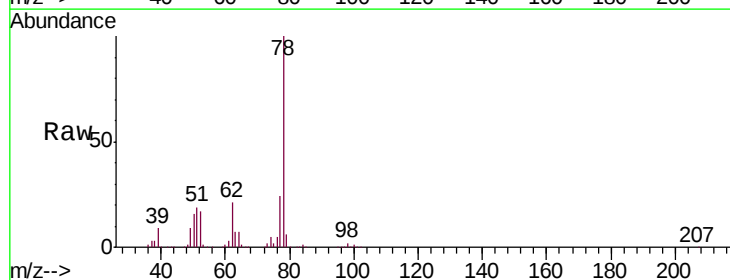
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

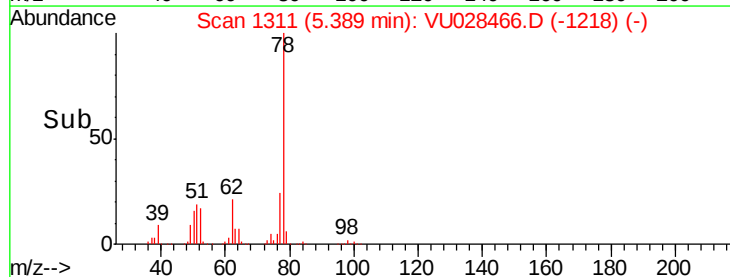
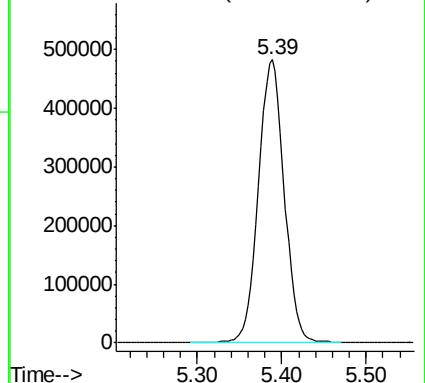
Lab File: VU028466.D

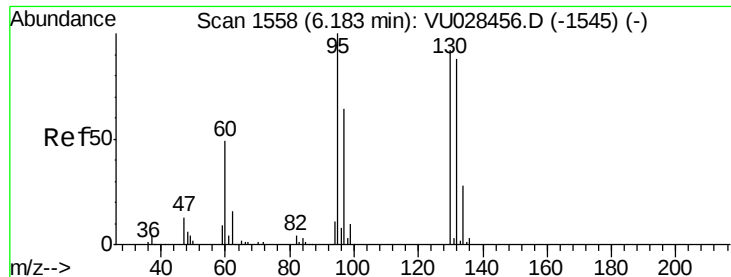
Acq: 04 Dec 2018 15:32

Tgt Ion: 78 Resp: 1027963



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 49.049 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

Tgt Ion: 95 Resp: 254844

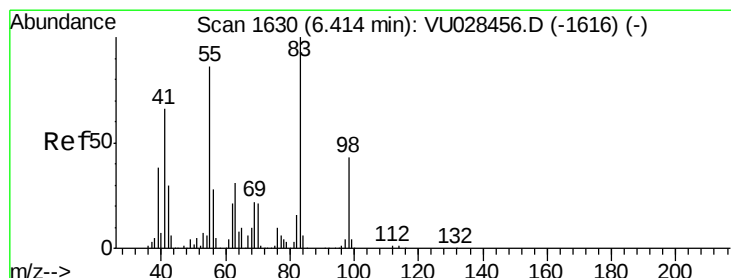
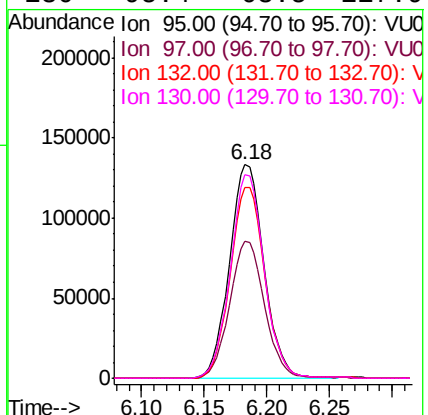
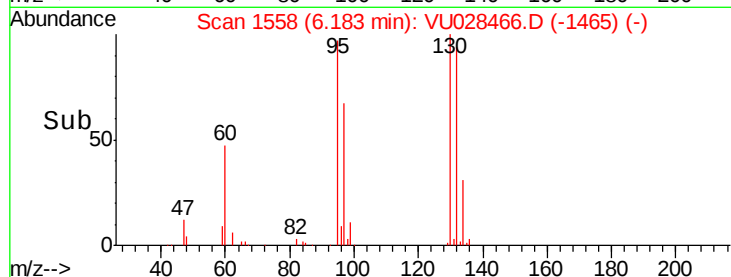
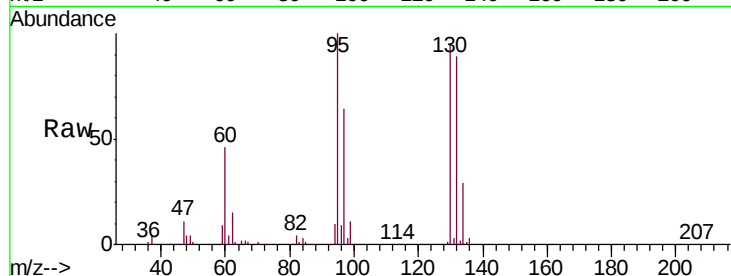
Ion Ratio Lower Upper

95 100

97 63.9 44.1 81.9

132 89.5 60.2 111.8

130 95.4 63.5 117.9



#35

Methylcyclohexane

Concen: 47.946 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

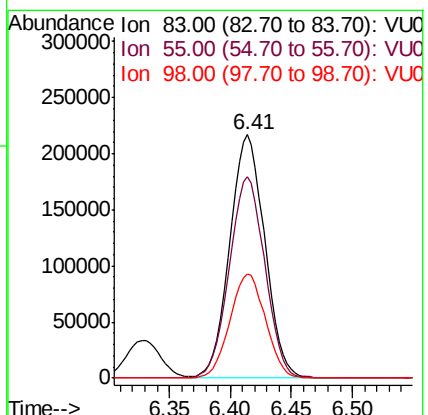
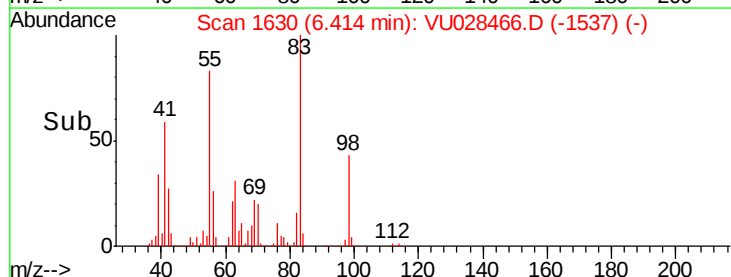
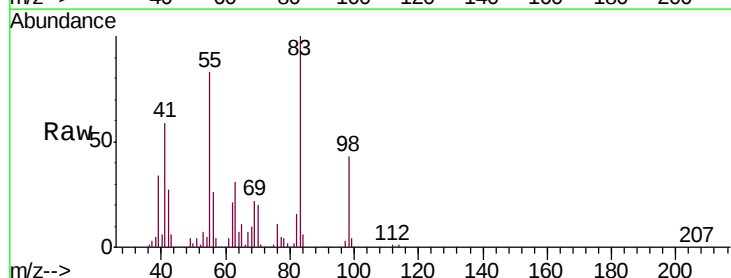
Tgt Ion: 83 Resp: 433643

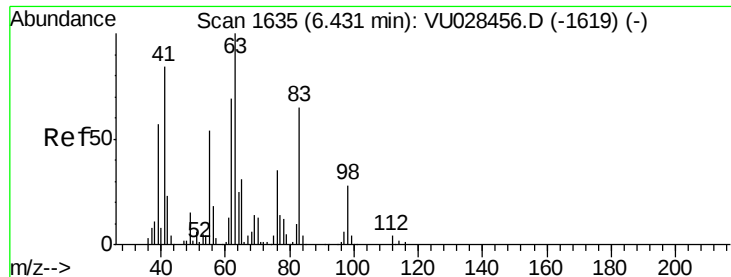
Ion Ratio Lower Upper

83 100

55 83.6 70.5 105.7

98 43.4 34.6 52.0

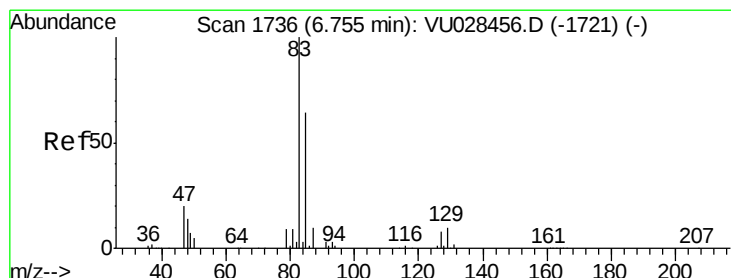
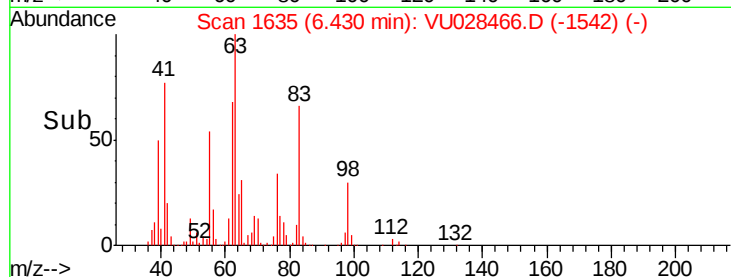
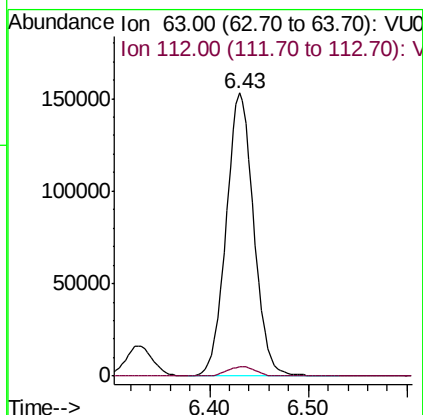
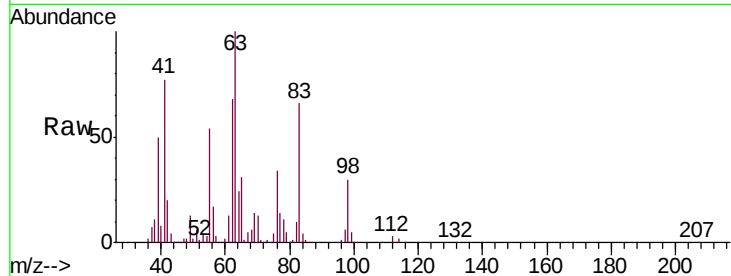




#37
 1,2-Dichloropropane
 Concen: 46.397 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

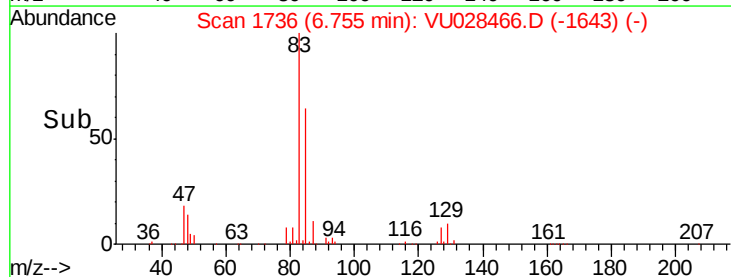
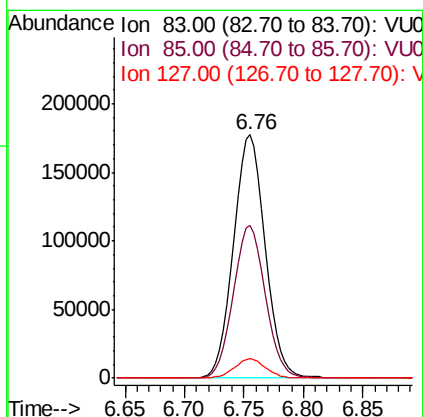
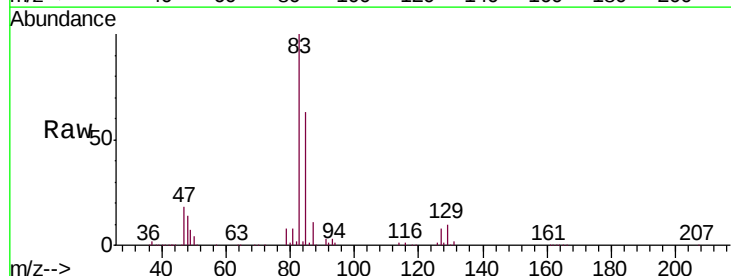
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

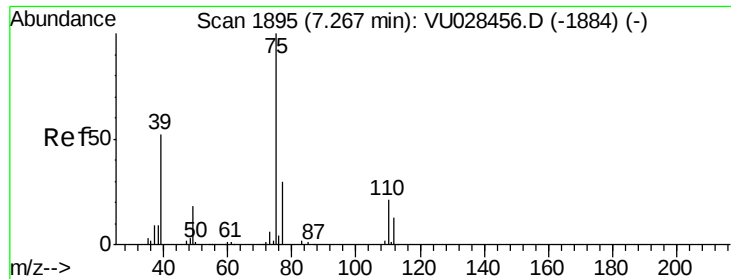
Tgt Ion: 63 Resp: 298921
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.6 3.8



#38
 Bromodichloromethane
 Concen: 45.887 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Tgt Ion: 83 Resp: 328043
 Ion Ratio Lower Upper
 83 100
 85 62.9 44.9 83.3
 127 8.1 6.0 9.0



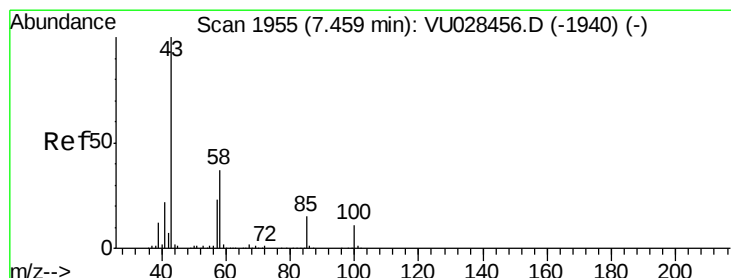
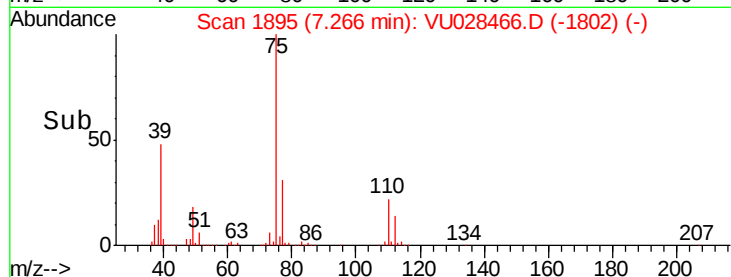
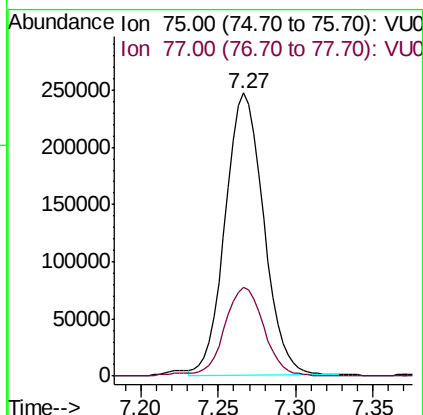
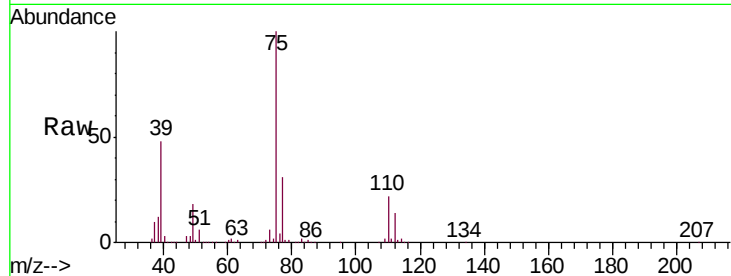


#39

cis-1,3-Dichloropropene
 Concen: 46.624 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05041

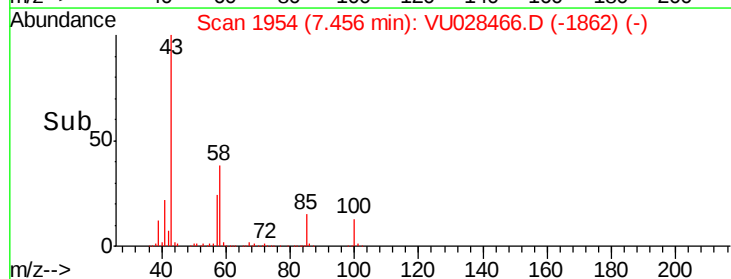
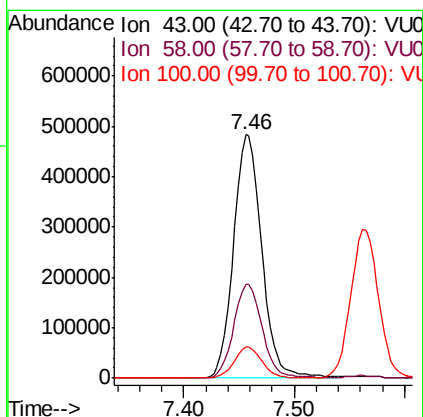
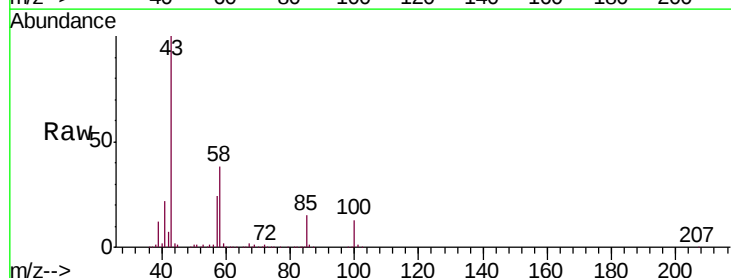
Tgt Ion: 75 Resp: 426508
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.9 40.7

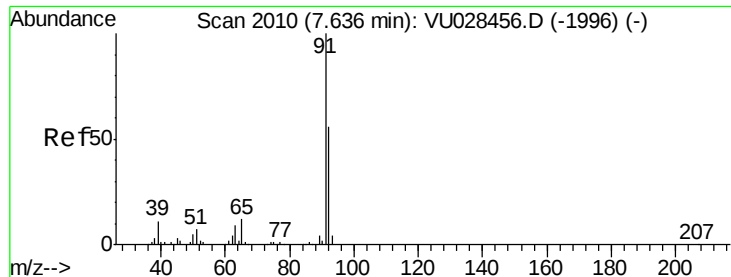


#40

4-Methyl-2-pentanone
 Concen: 84.331 ug/L
 RT: 7.46 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Tgt Ion: 43 Resp: 859261
 Ion Ratio Lower Upper
 43 100
 58 38.9 29.9 44.9
 100 12.6 8.7 13.1





#42

Toluene

Concen: 48.180 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

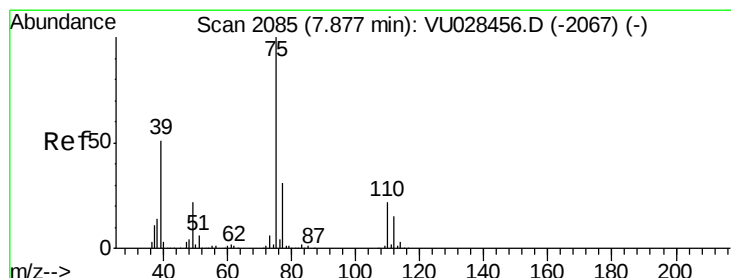
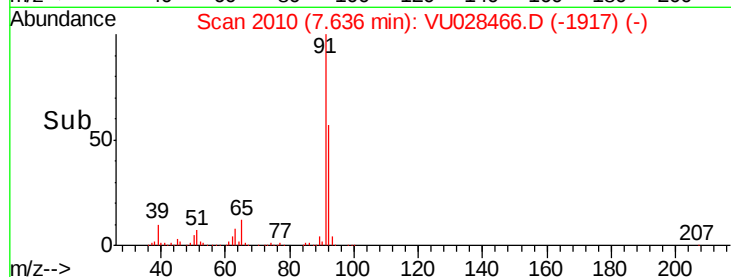
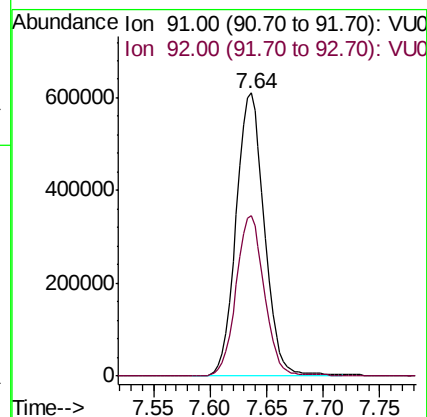
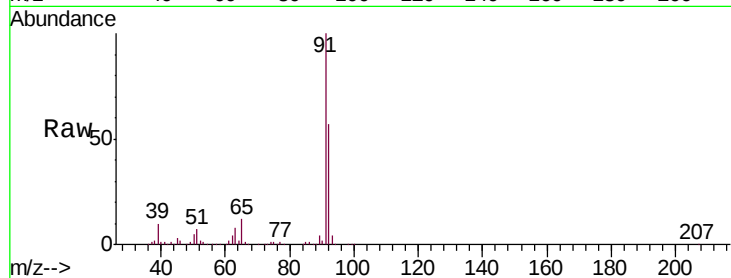
VSTD05041

Tgt Ion: 91 Resp: 1065463

Ion Ratio Lower Upper

91 100

92 56.8 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 47.655 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028466.D

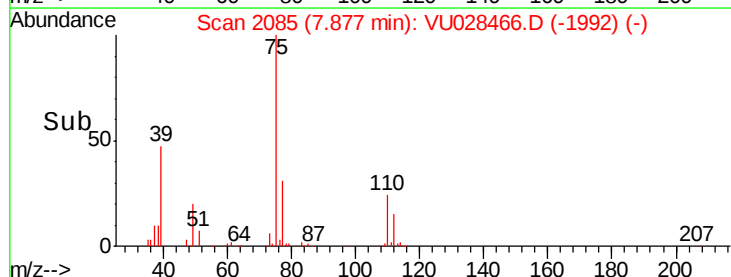
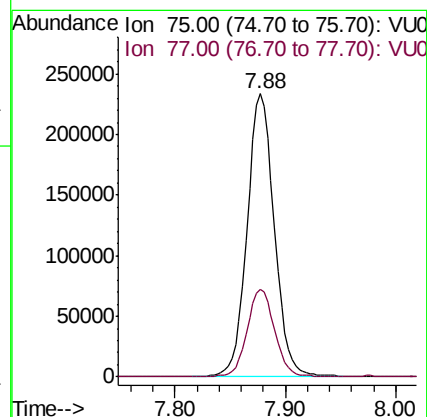
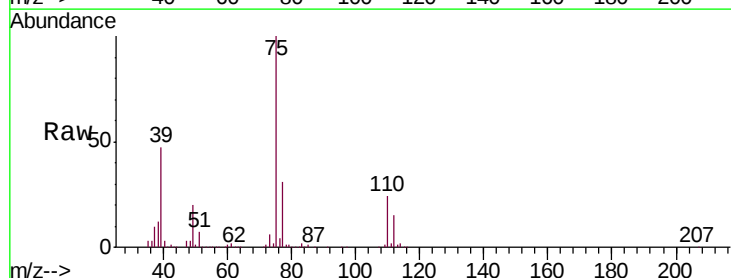
Acq: 04 Dec 2018 15:32

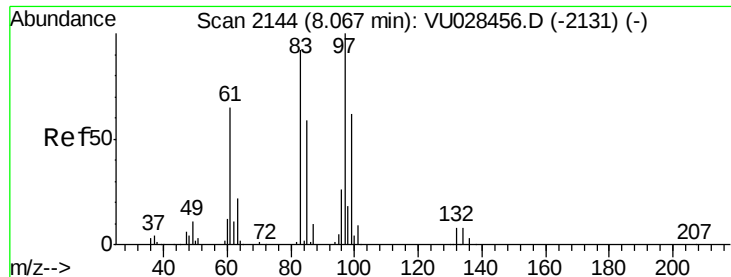
Tgt Ion: 75 Resp: 399457

Ion Ratio Lower Upper

75 100

77 30.9 22.1 41.1

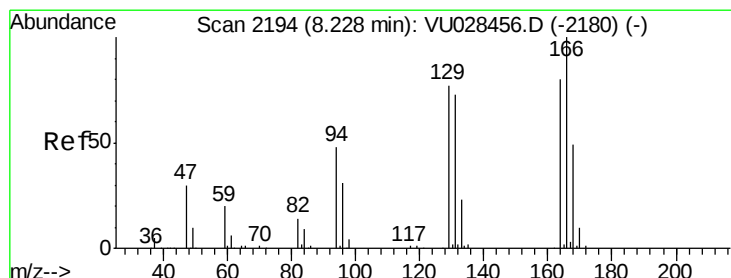
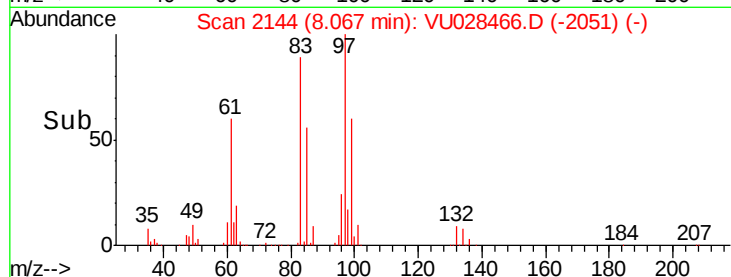
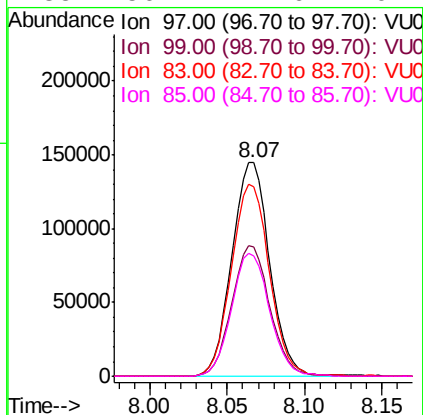
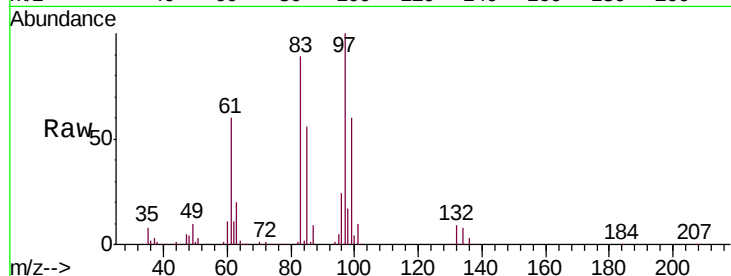




#45
 1,1,2-Trichloroethane
 Concen: 49.104 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

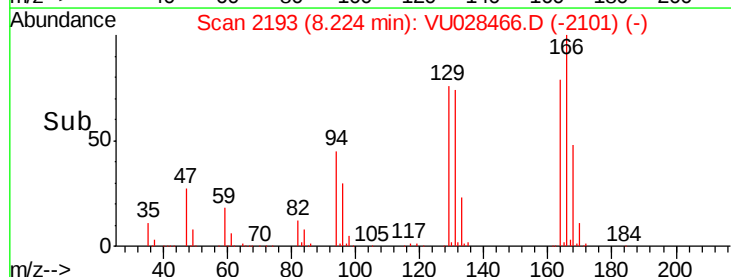
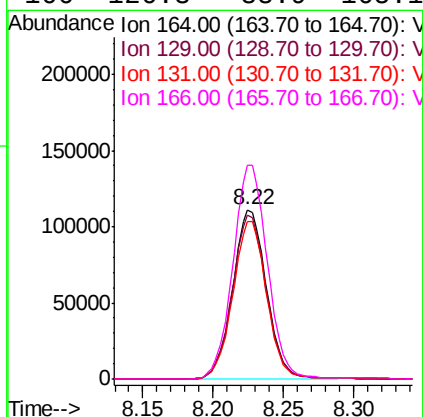
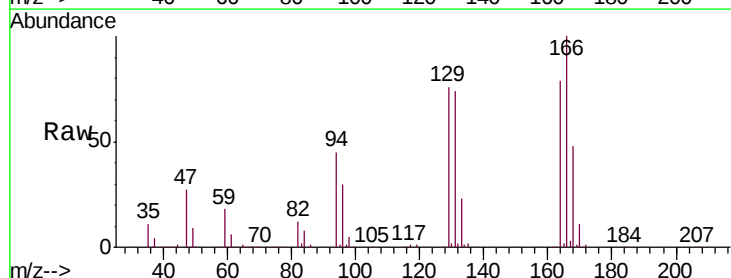
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

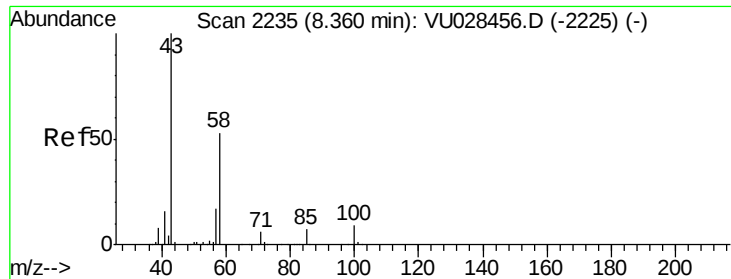
Tgt Ion:	97	Resp:	246018
Ion	Ratio	Lower	Upper
97	100		
99	60.3	44.9	83.3
83	88.7	65.1	120.9
85	56.1	42.6	79.2



#46
 Tetrachloroethene
 Concen: 50.943 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Tgt Ion:	164	Resp:	186133
Ion	Ratio	Lower	Upper
164	100		
129	96.5	65.8	122.2
131	93.4	65.2	121.0
166	126.3	88.9	165.1

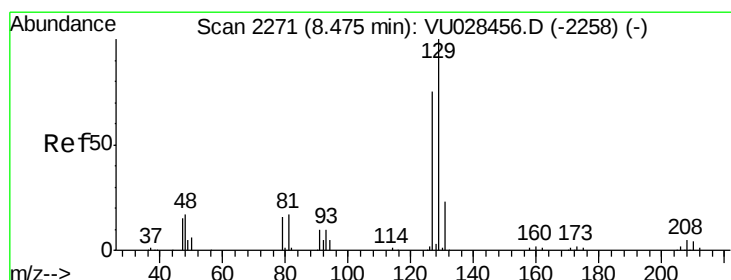
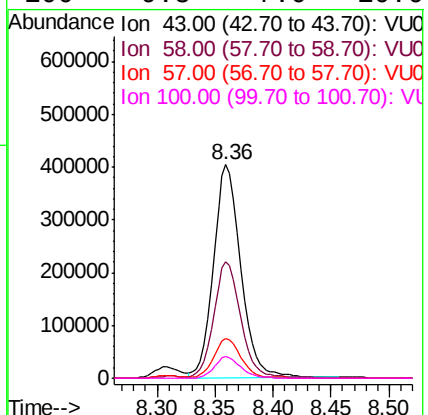
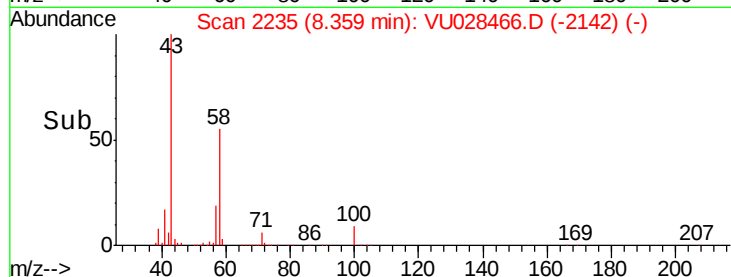
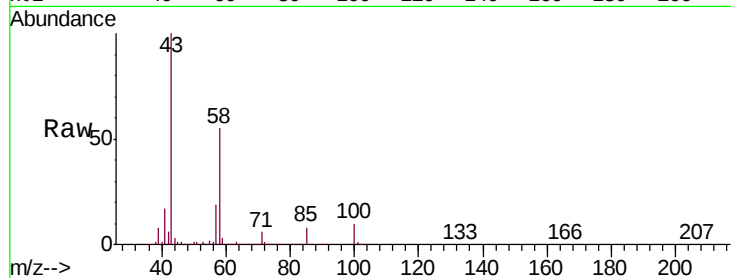




#48
2-Hexanone
Concen: 77.661 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

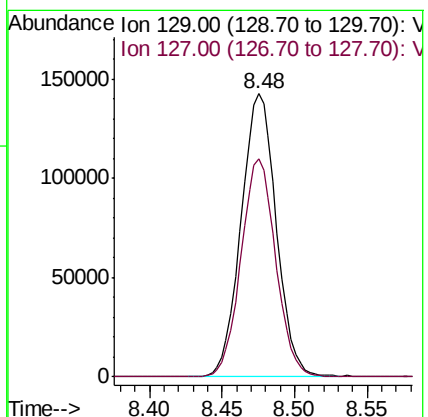
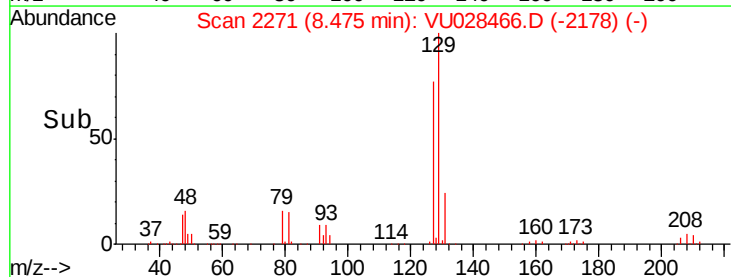
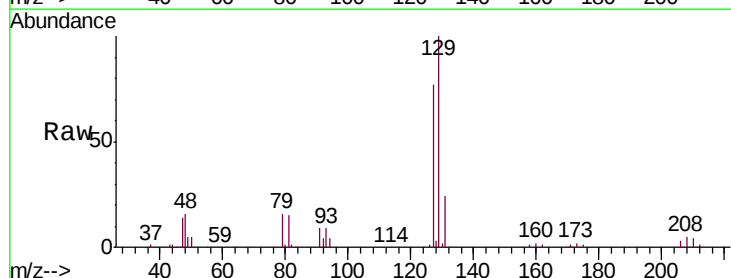
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

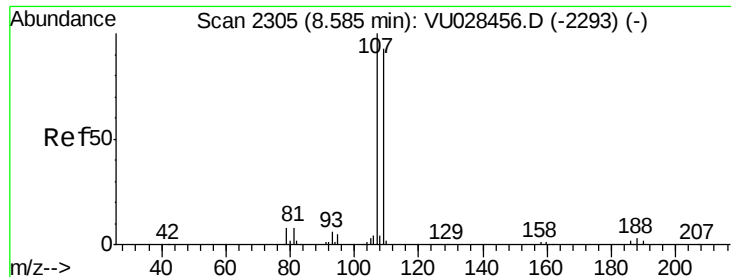
Tgt Ion: 43 Resp: 664818
Ion Ratio Lower Upper
43 100
58 54.1 41.4 62.0
57 18.4 14.0 21.0
100 9.8 7.0 10.6



#49
Dibromochloromethane
Concen: 47.062 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

Tgt Ion: 129 Resp: 241192
Ion Ratio Lower Upper
129 100
127 77.3 56.8 105.4

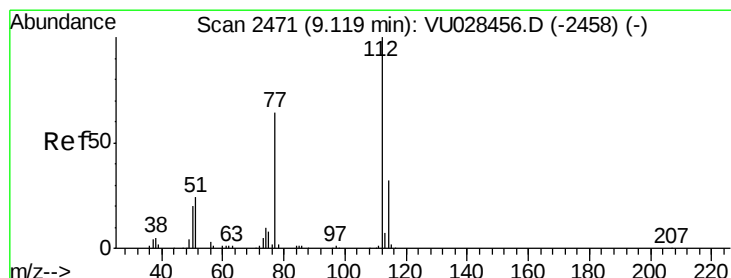
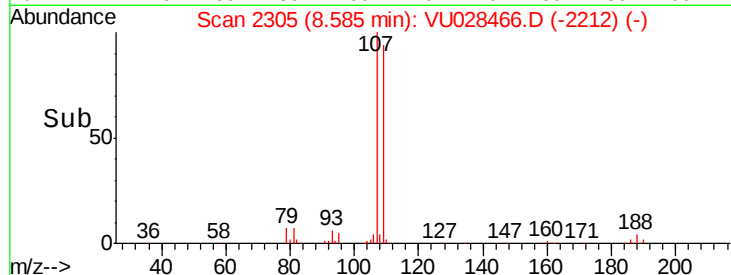
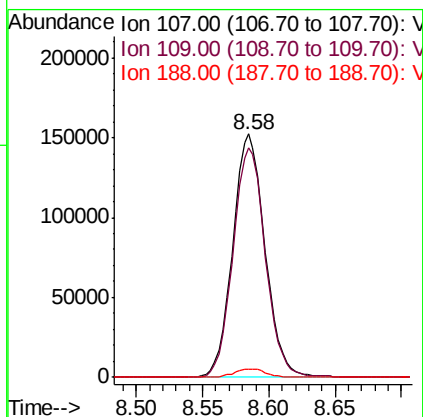
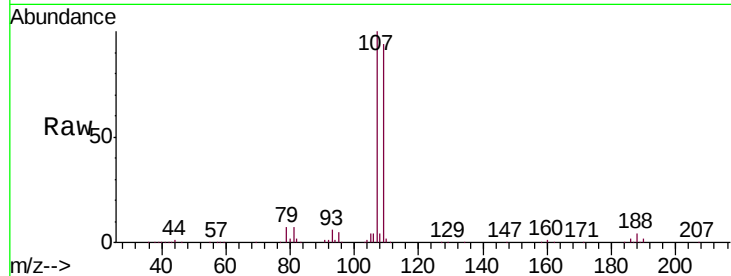




#50
1,2-Dibromoethane
Concen: 47.678 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

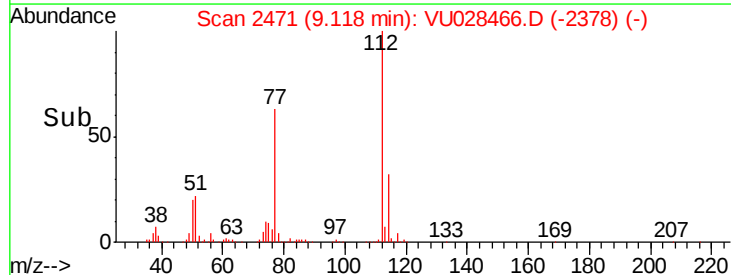
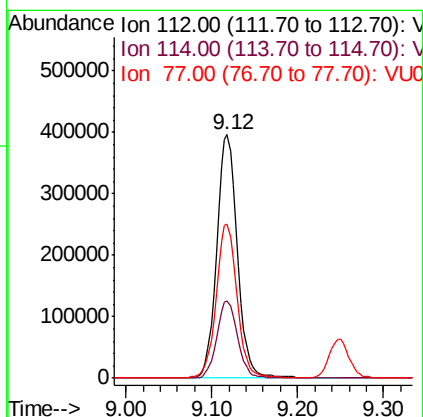
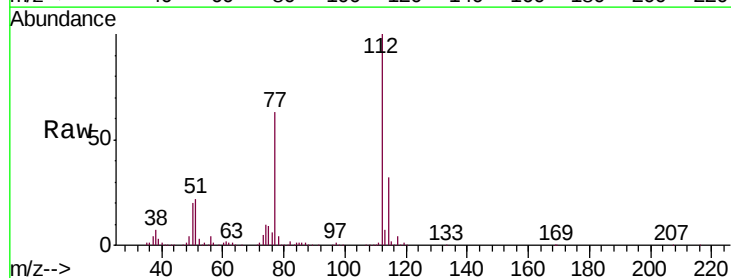
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

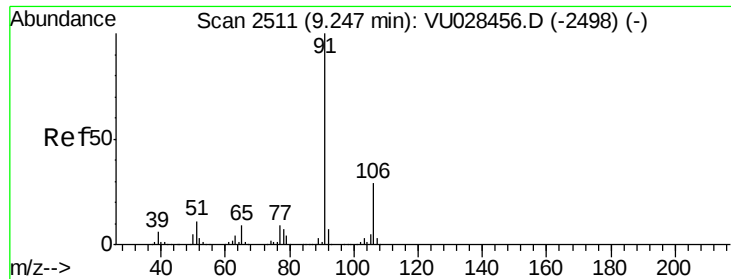
Tgt Ion:107 Resp: 256765
Ion Ratio Lower Upper
107 100
109 94.4 64.5 119.7
188 3.5 2.6 3.8



#51
Chlorobenzene
Concen: 50.180 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028466.D
Acq: 04 Dec 2018 15:32

Tgt Ion:112 Resp: 661947
Ion Ratio Lower Upper
112 100
114 31.6 21.6 40.0
77 63.1 53.0 79.6





#52

Ethylbenzene

Concen: 48.881 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

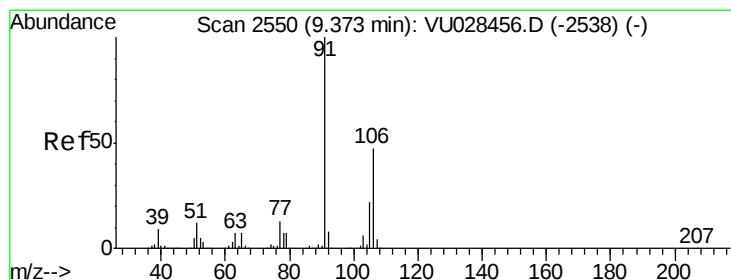
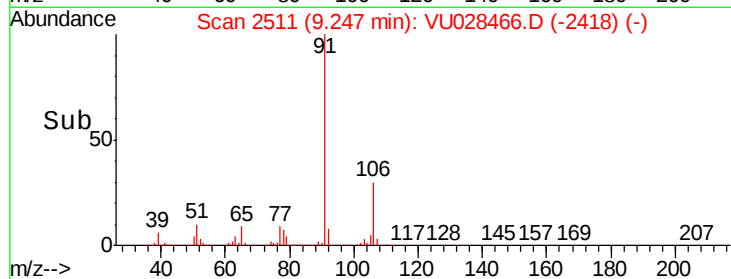
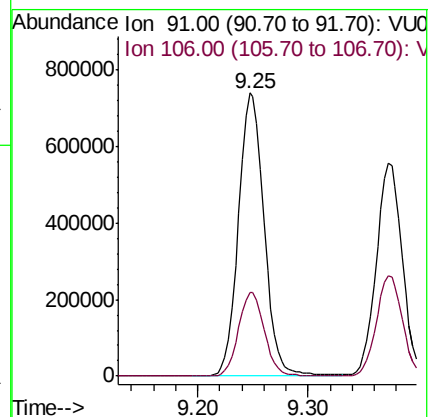
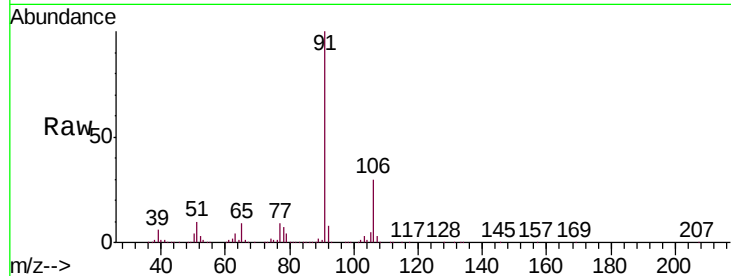
VSTD05041

Tgt Ion: 91 Resp: 1194065

Ion Ratio Lower Upper

91 100

106 29.6 20.2 37.6



#53

m,p-Xylene

Concen: 50.138 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028466.D

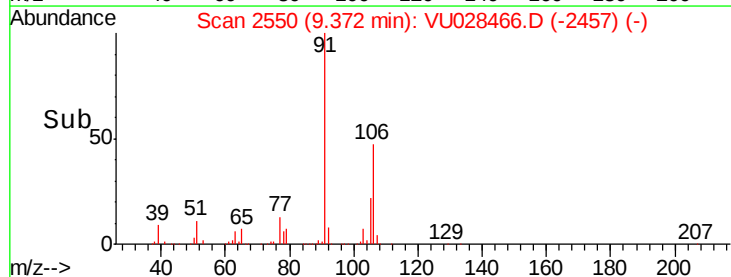
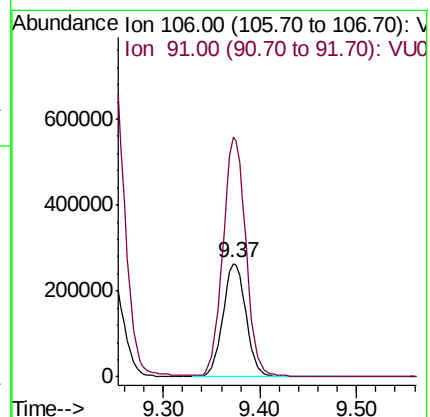
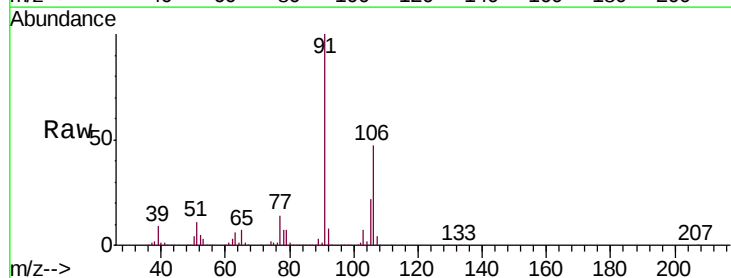
Acq: 04 Dec 2018 15:32

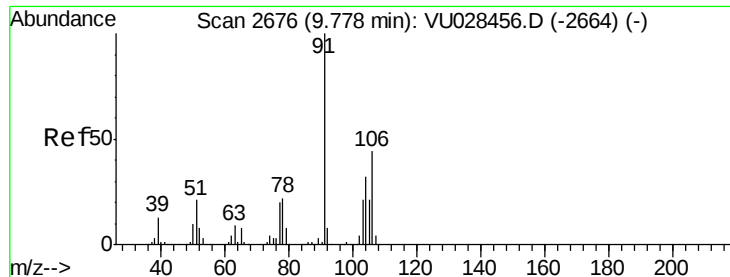
Tgt Ion: 106 Resp: 436833

Ion Ratio Lower Upper

106 100

91 211.4 152.9 283.9





#54

o-xylene

Concen: 49.666 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

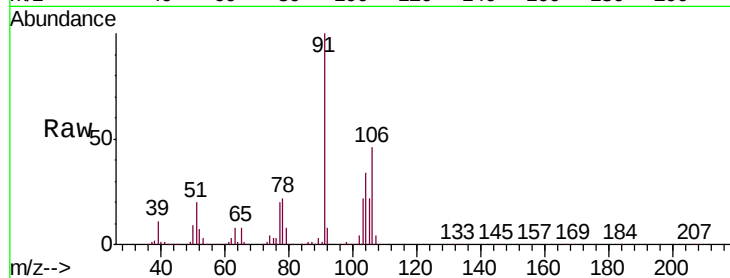
VSTD05041

Tgt Ion:106 Resp: 428603

Ion Ratio Lower Upper

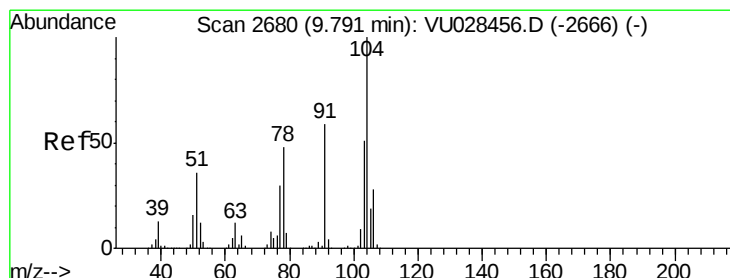
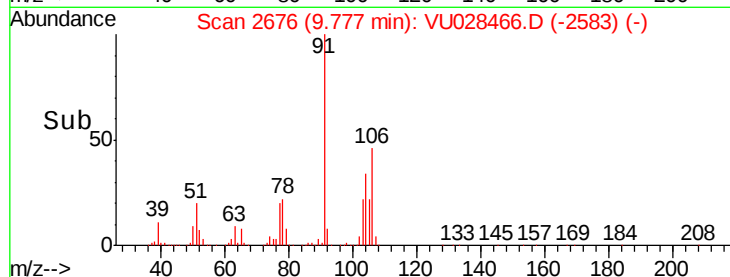
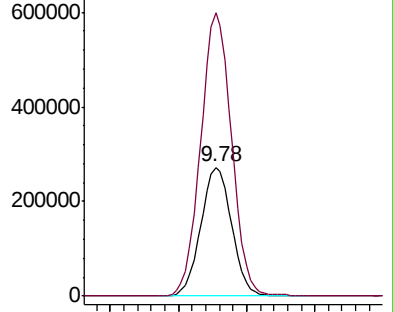
106 100

91 219.6 158.4 294.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.126 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028466.D

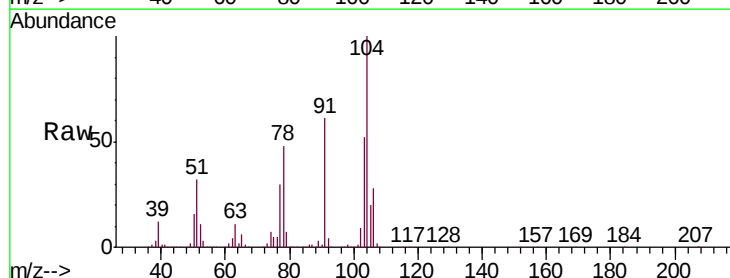
Acq: 04 Dec 2018 15:32

Tgt Ion:104 Resp: 741126

Ion Ratio Lower Upper

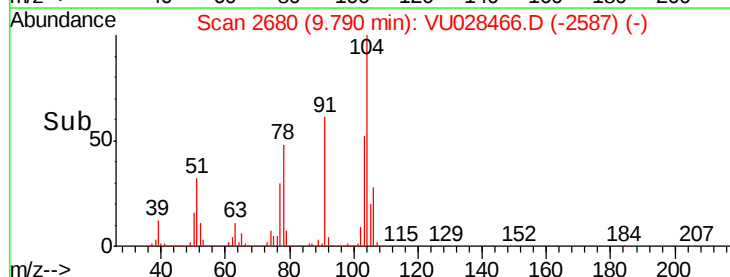
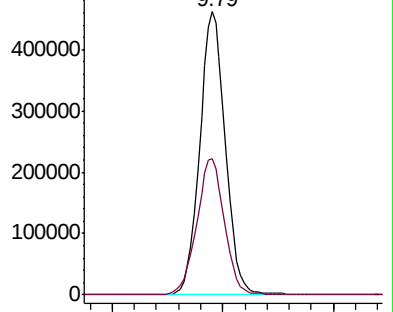
104 100

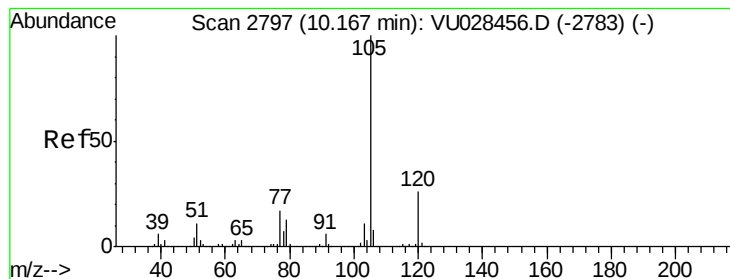
78 48.2 35.0 65.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.575 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

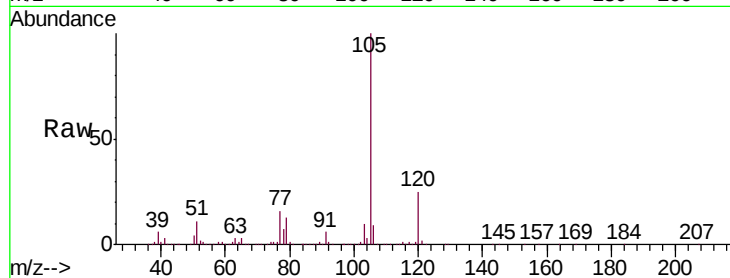
Tgt Ion:105 Resp: 1128618

Ion Ratio Lower Upper

105 100

120 25.6 20.1 30.1

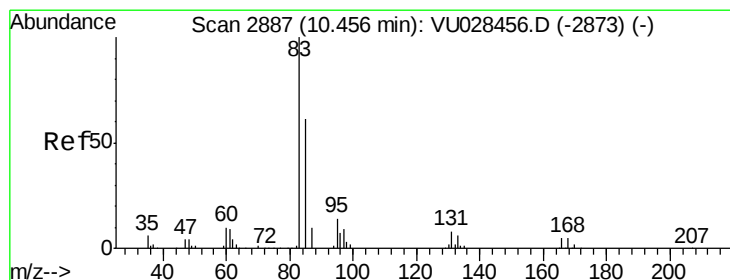
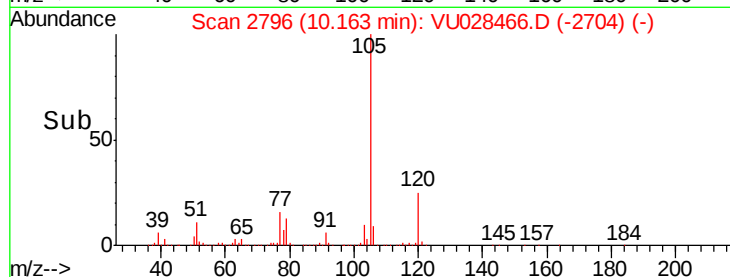
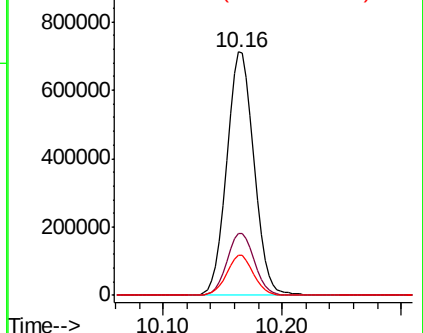
77 16.2 13.4 20.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.174 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

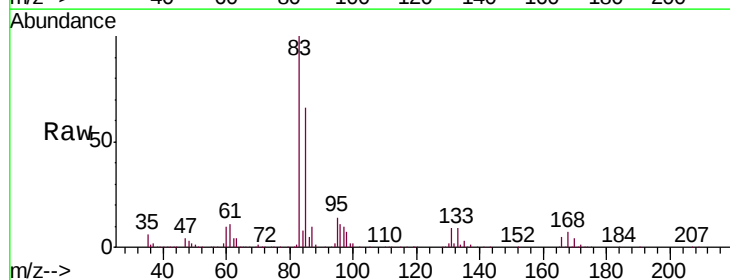
Tgt Ion: 83 Resp: 431539

Ion Ratio Lower Upper

83 100

85 65.7 44.7 83.1

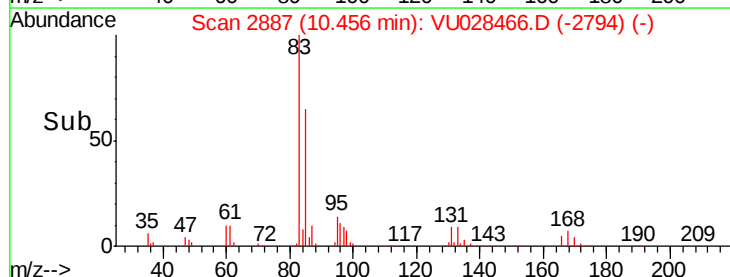
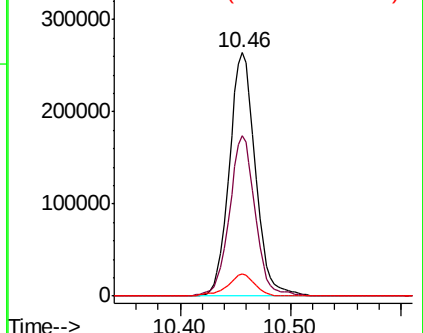
131 9.0 6.5 9.7

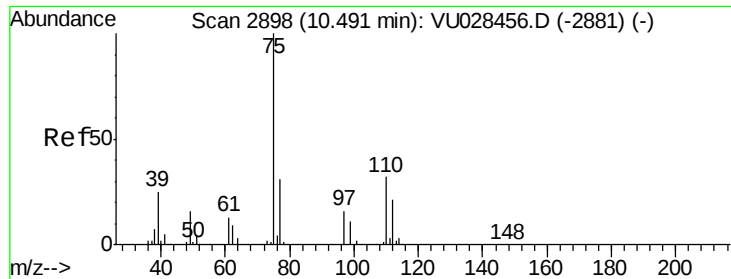


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.667 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

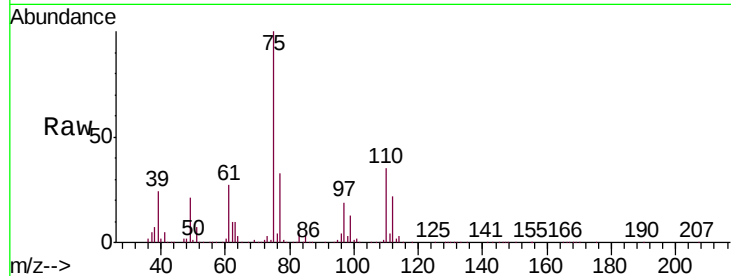
VSTD05041

Tgt Ion: 75 Resp: 333976

Ion Ratio Lower Upper

75 100

77 32.8 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU028456.D (-2881) (-)

Ion 77.00 (76.70 to 77.70): VU028456.D (-2881) (-)

10.49

200000

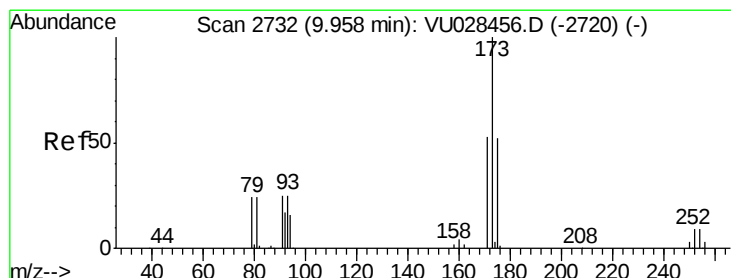
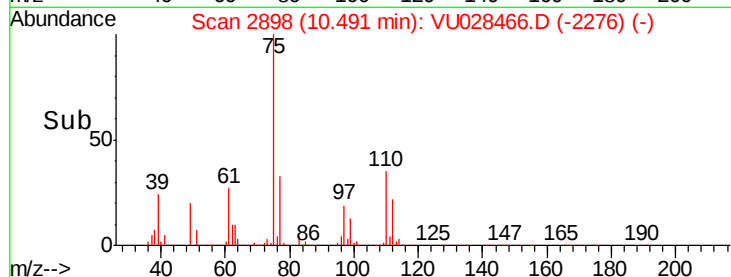
150000

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 44.942 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

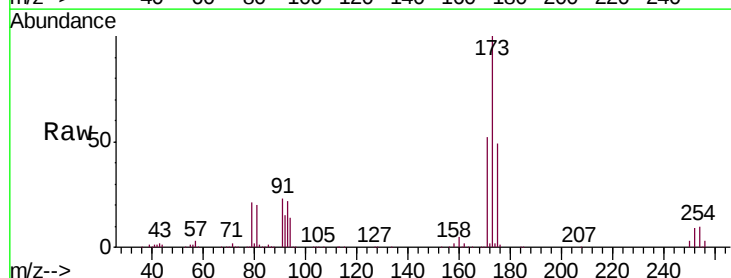
Tgt Ion: 173 Resp: 175070

Ion Ratio Lower Upper

173 100

175 48.2 38.1 57.1

254 9.4 6.8 10.2



Abundance Ion 173.00 (172.70 to 173.70): VU028456.D (-2720) (-)

Ion 175.00 (174.70 to 175.70): VU028456.D (-2720) (-)

Ion 254.00 (253.70 to 254.70): VU028456.D (-2720) (-)

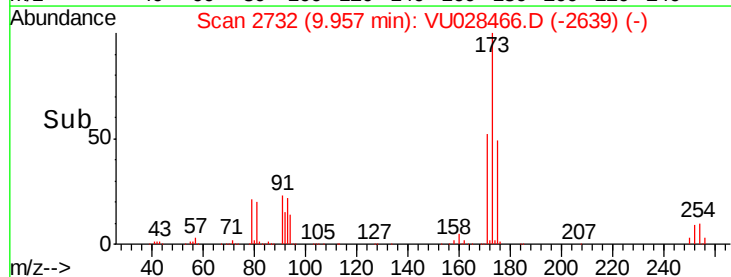
9.96

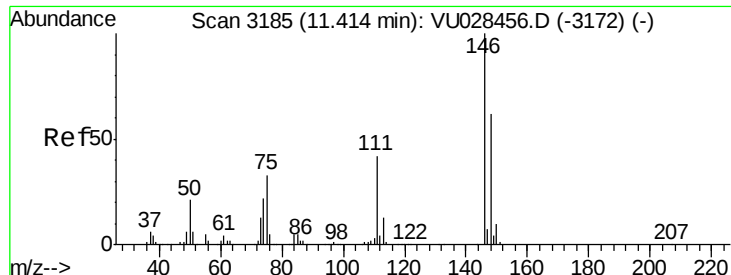
100000

50000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 50.419 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

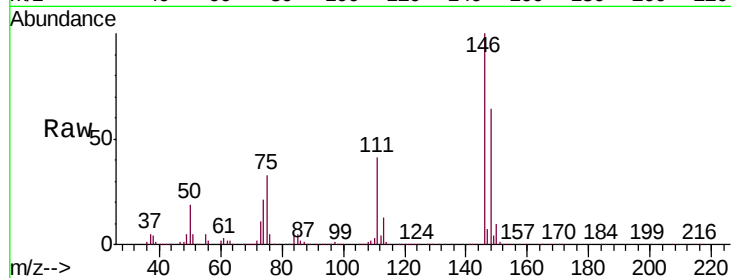
Tgt Ion:146 Resp: 520399

Ion Ratio Lower Upper

146 100

111 40.6 28.8 53.4

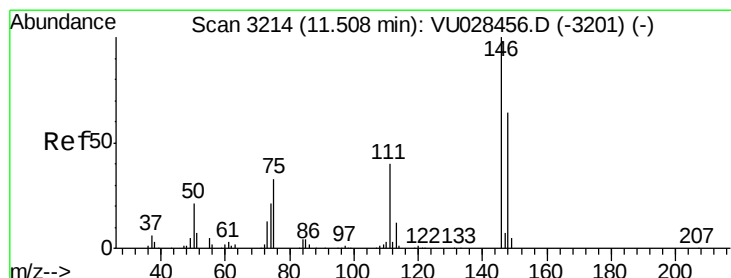
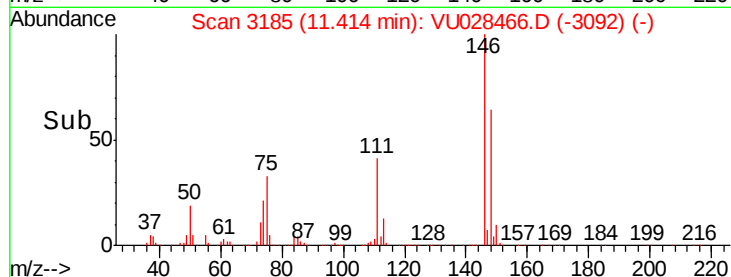
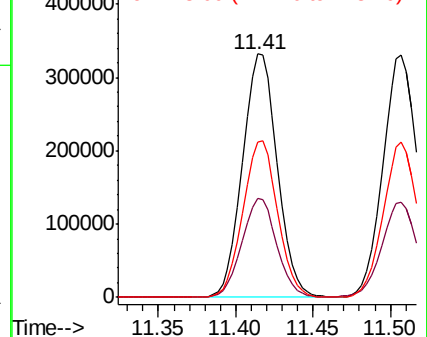
148 63.9 43.1 80.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.037 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

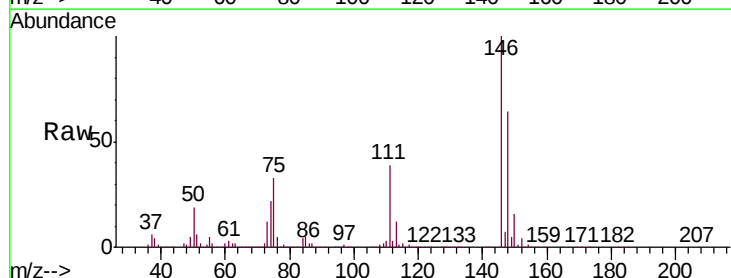
Tgt Ion:146 Resp: 520084

Ion Ratio Lower Upper

146 100

111 39.4 27.6 51.4

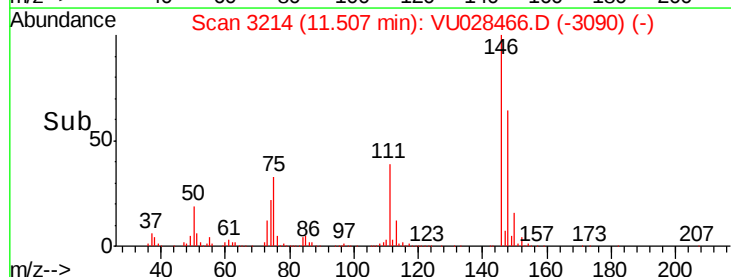
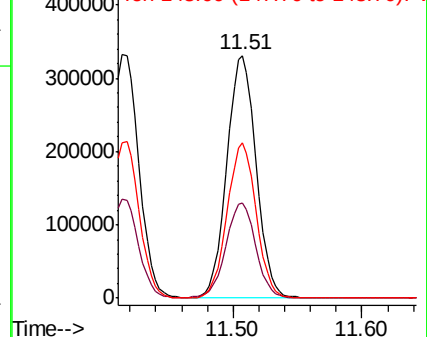
148 63.9 44.7 82.9

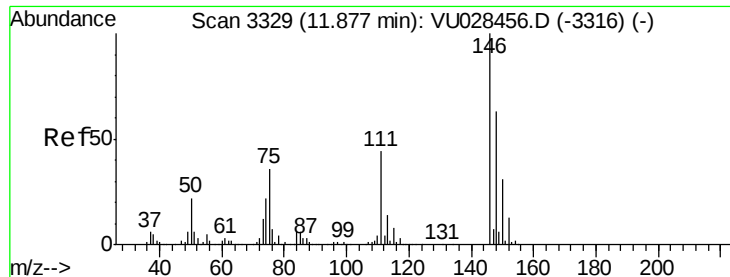


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

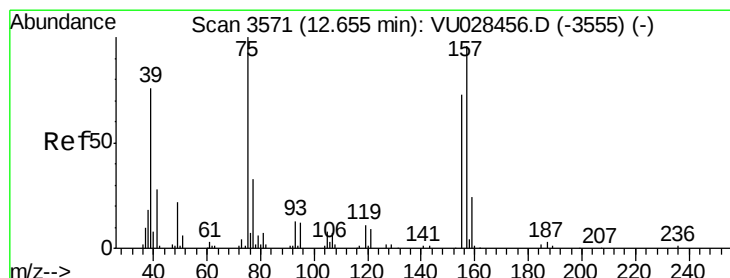
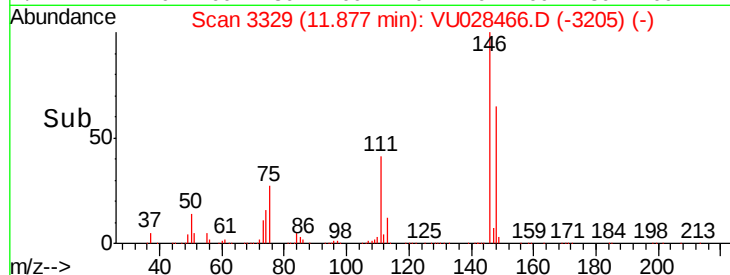
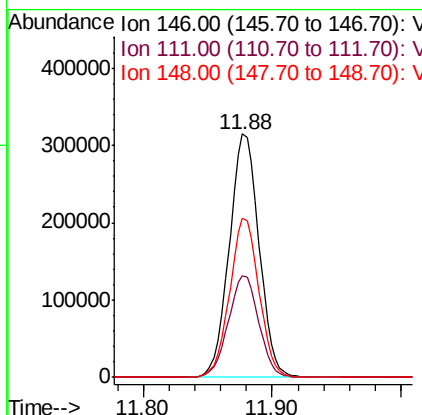
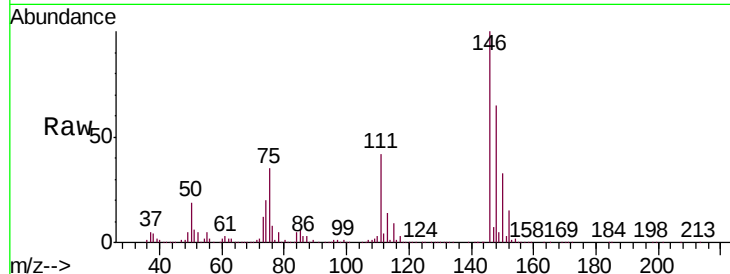




#65
 1,2-Dichlorobenzene
 Concen: 49.199 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

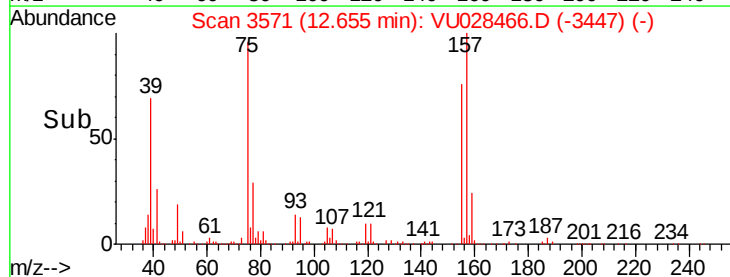
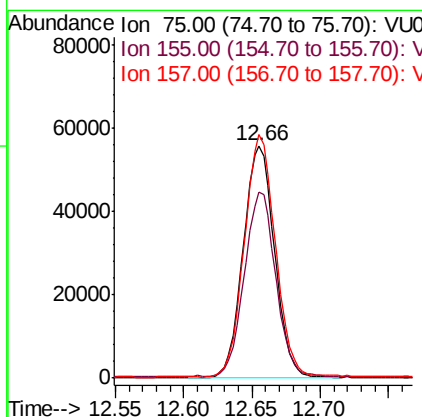
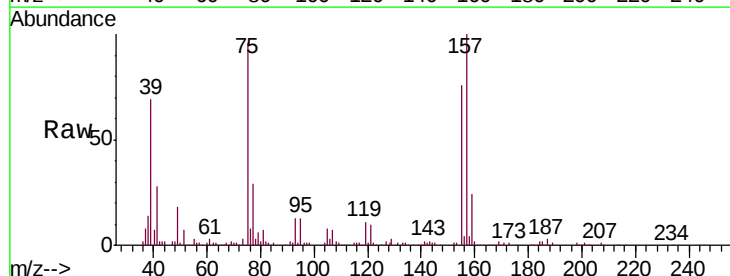
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

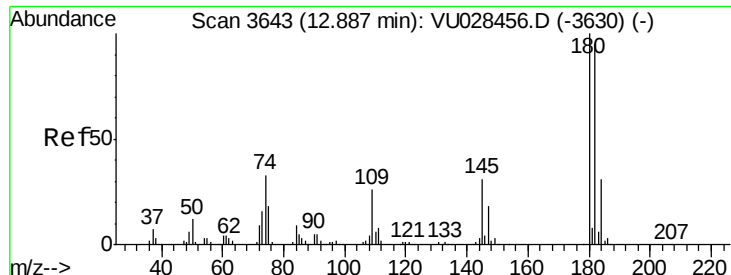
Tgt Ion:146 Resp: 504041
 Ion Ratio Lower Upper
 146 100
 111 41.8 34.9 52.3
 148 65.2 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.328 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Tgt Ion: 75 Resp: 89424
 Ion Ratio Lower Upper
 75 100
 155 79.9 58.8 88.2
 157 104.6 76.9 115.3

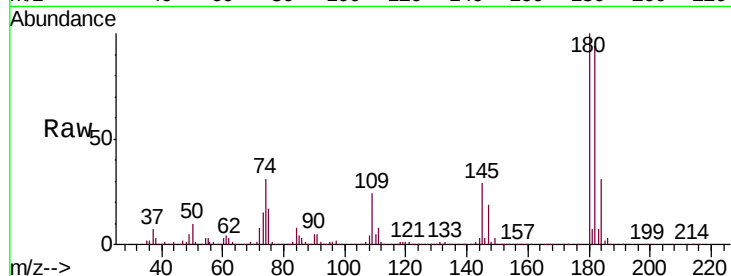




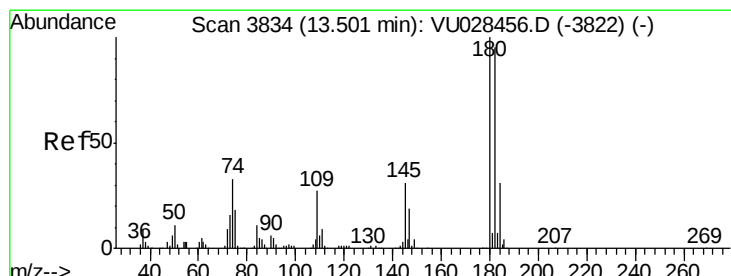
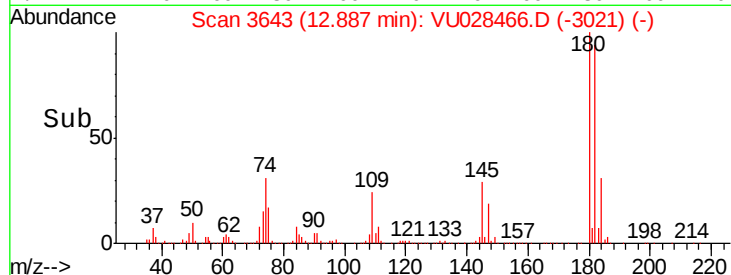
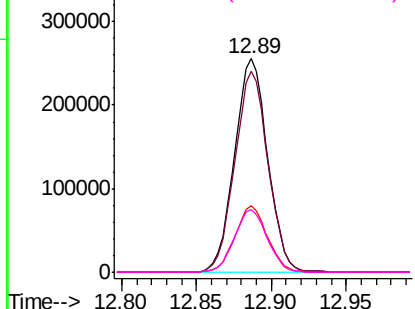
#67
 1,3,5-Trichlorobenzene
 Concen: 51.879 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:	180	Resp:	393913
Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.6
184	30.2	24.0	36.0
145	29.0	23.8	35.8

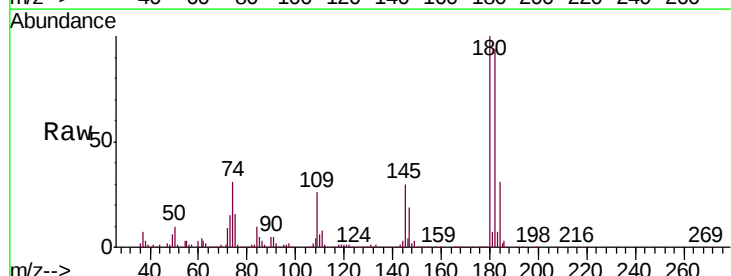


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

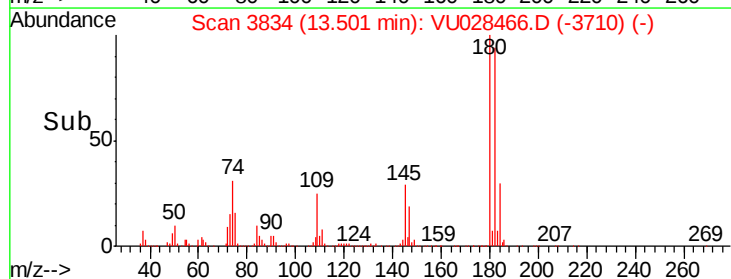
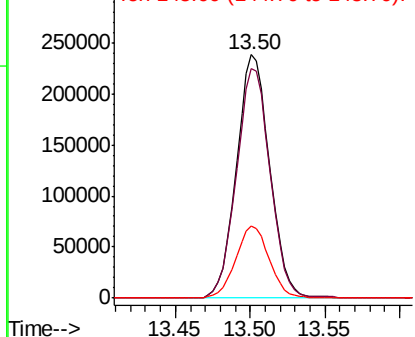


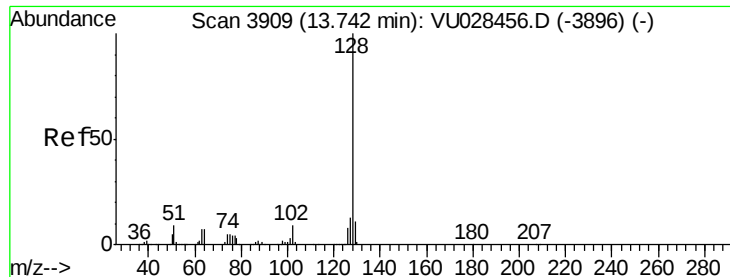
#68
 1,2,4-trichlorobenzene
 Concen: 52.038 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028466.D
 Acq: 04 Dec 2018 15:32

Tgt Ion:	180	Resp:	368000
Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.0	114.0
145	29.5	24.2	36.2



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





#69

Naphthalene

Concen: 50.332 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

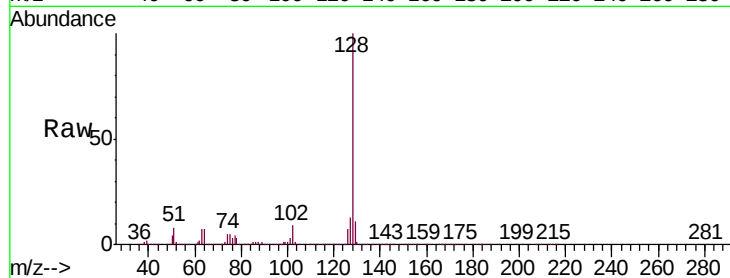
Tgt Ion:128 Resp: 1241116

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

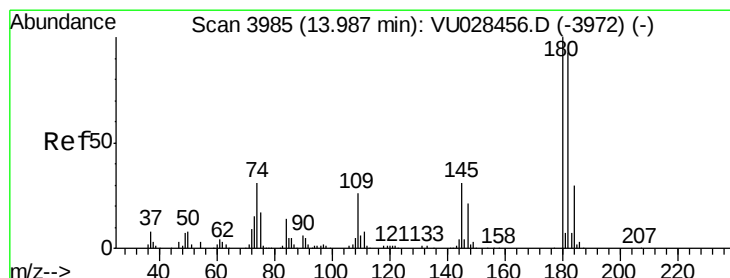
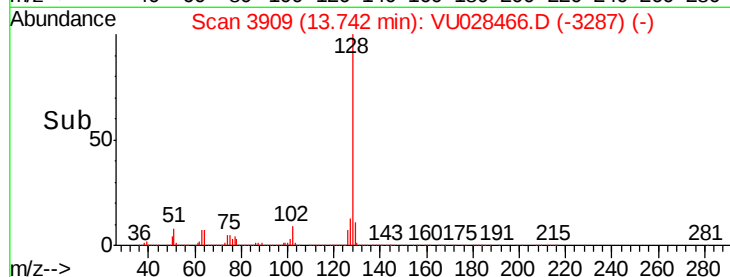
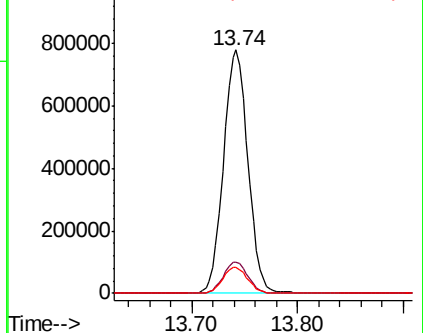
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.716 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028466.D

Acq: 04 Dec 2018 15:32

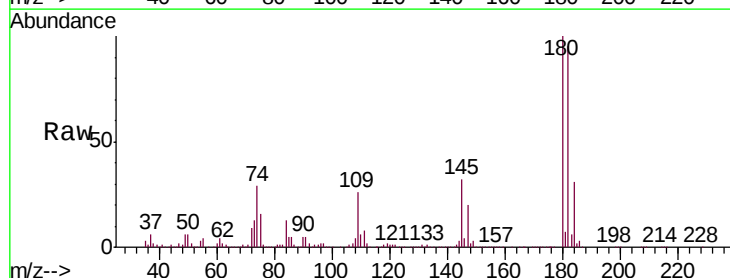
Tgt Ion:180 Resp: 361265

Ion Ratio Lower Upper

180 100

182 95.0 76.6 115.0

145 32.1 26.2 39.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

