

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090818\
 Data File : VU026619.D
 Acq On : 07 Sep 2018 14:48
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Quant Time: Sep 08 01:17:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 07 05:26:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	161379	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	152962	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	74513	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	49654	49.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.32%
7) Chloroethane-d5	1.67	69	44737	49.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.08%
11) 1,1-Dichloroethene-d2	2.27	63	98995	43.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.92%
21) 2-Butanone-d5	4.18	46	85099	109.66	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.66%
24) Chloroform-d	4.65	84	100455	53.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.38%
26) 1,2-Dichloroethane-d4	5.31	65	63822	50.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.52%
32) Benzene-d6	5.34	84	189520	53.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.52%
36) 1,2-Dichloropropane-d6	6.33	67	65068	53.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.46%
41) Toluene-d8	7.57	98	176475	51.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.70%
43) trans-1,3-Dichloropropene-	7.85	79	29248	52.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.76%
47) 2-Hexanone-d5	8.31	63	62017	111.65	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.65%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	94264	52.83	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.66%
64) 1,2-Dichlorobenzene-d4	11.86	152	72515	53.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.28%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	65429	51.997	ug/L	98
3) Chloromethane	1.32	50	80004	51.492	ug/L	100
5) Vinyl chloride	1.40	62	83876	49.796	ug/L	98
6) Bromomethane	1.62	94	41828	41.887	ug/L	100
8) Chloroethane	1.69	64	51186	50.613	ug/L	99
9) Trichlorofluoromethane	1.88	101	106059	49.516	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	60617	50.720	ug/L	98
12) 1,1-Dichloroethene	2.28	96	54079	46.947	ug/L	96
13) Acetone	2.32	43	92635	137.854	ug/L	99
14) Carbon disulfide	2.48	76	164162	50.359	ug/L	100
15) Methyl Acetate	2.61	43	71928	54.514	ug/L	99
16) Methylene chloride	2.70	84	65294	55.132	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	55988	53.736	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	182063	57.561	ug/L	99
19) 1,1-Dichloroethane	3.44	63	113548	55.462	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	65302	55.947	ug/L	98
22) 2-Butanone	4.26	43	112450	124.497	ug/L	99

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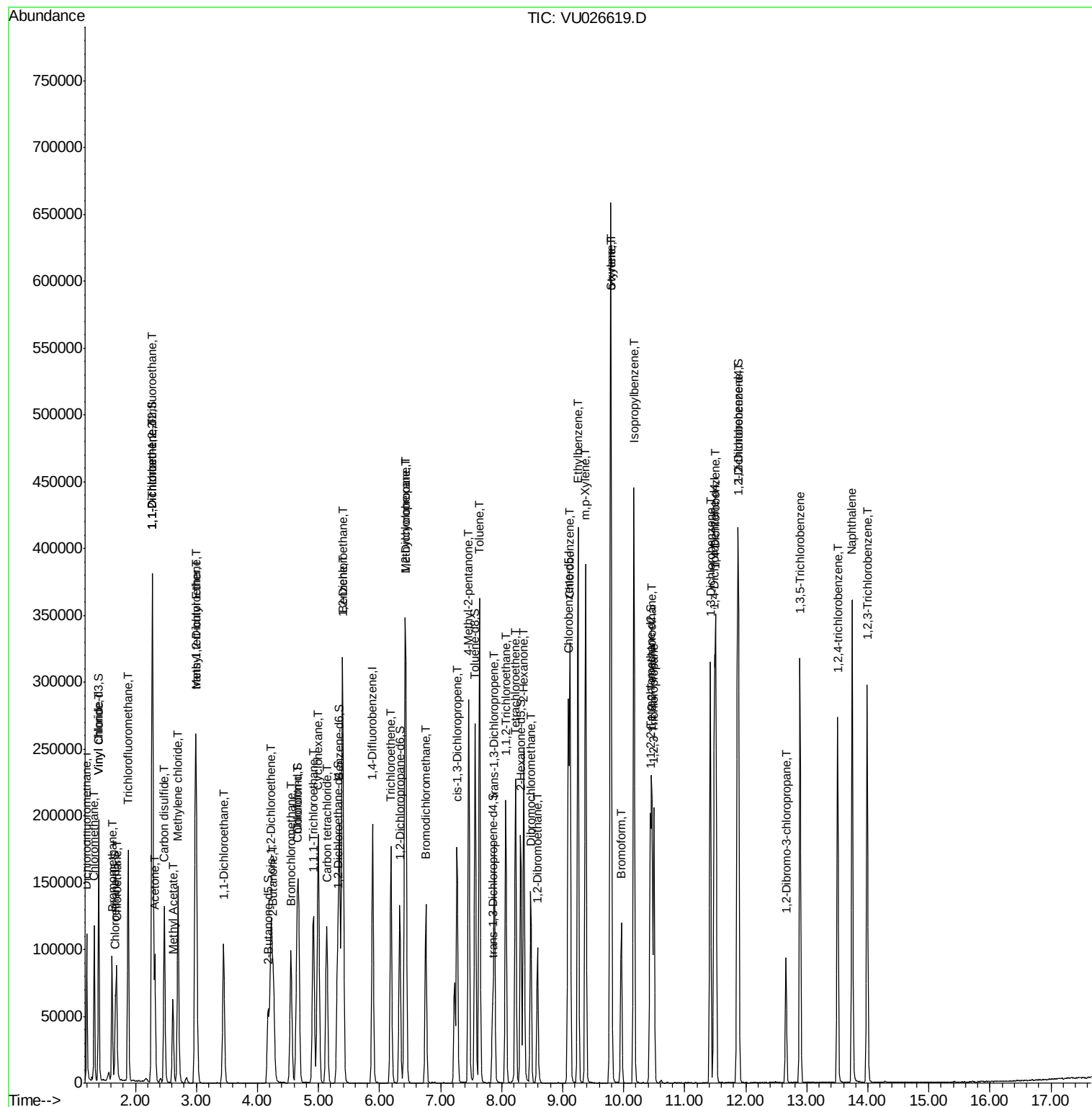
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	33840	56.274	ug/L	94
25) Chloroform	4.67	83	115331	55.161	ug/L	100
27) 1,2-Dichloroethane	5.40	62	91604	54.324	ug/L	98
29) Cyclohexane	5.00	56	97325	58.397	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	95534	56.755	ug/L	98
31) Carbon tetrachloride	5.13	117	86252	56.395	ug/L	99
33) Benzene	5.39	78	251472	57.345	ug/L	100
34) Trichloroethene	6.19	95	61628	56.028	ug/L	99
35) Methylcyclohexane	6.42	83	102728	59.811	ug/L	99
37) 1,2-Dichloropropane	6.43	63	71440	58.847	ug/L	99
38) Bromodichloromethane	6.76	83	87938	56.803	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	102386	59.189	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	189802	115.929	ug/L	100
42) Toluene	7.64	91	264284	57.757	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	95742	58.070	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	62840	56.503	ug/L	97
46) Tetrachloroethene	8.23	164	51611	57.390	ug/L	98
48) 2-Hexanone	8.36	43	156898	121.677	ug/L	98
49) Dibromochloromethane	8.48	129	72353	57.738	ug/L	100
50) 1,2-Dibromoethane	8.59	107	67159	56.708	ug/L	97
51) Chlorobenzene	9.12	112	168116	54.941	ug/L	100
52) Ethylbenzene	9.25	91	283304	56.926	ug/L	100
53) m,p-Xylene	9.38	106	108400	58.335	ug/L	99
54) o-xylene	9.78	106	106319	58.671	ug/L	99
55) Styrene	9.79	104	183715	58.034	ug/L	98
56) Isopropylbenzene	10.17	105	277382	58.476	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	109789	56.043	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	83834	55.343	ug/L	98
61) Bromoform	9.96	173	55245	60.071	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	125503	57.559	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	129348	56.087	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	137224	59.668	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	22112	57.180	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	102169	58.063	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	84801	55.176	ug/L	100
69) Naphthalene	13.75	128	278194	57.973	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	96065	56.925	ug/L	100

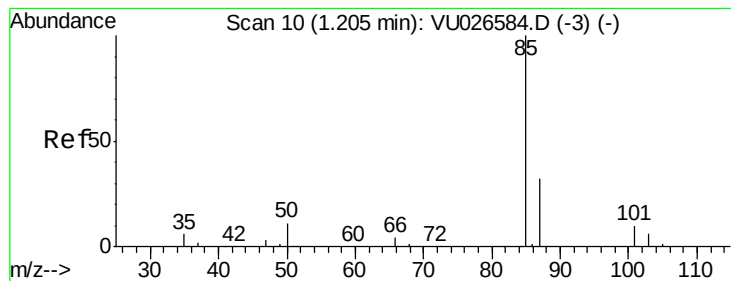
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 51.997 ug/L

RT: 1.20 min Scan# 9

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

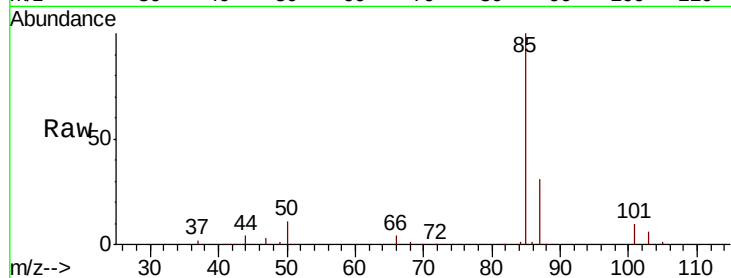
VSTD05043

Tot Ion: 85 Resp: 65429

Ion Ratio Lower Upper

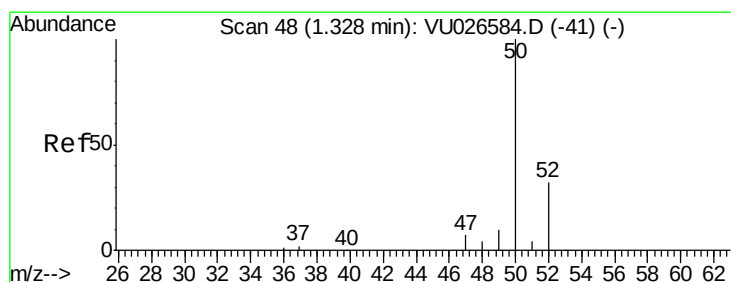
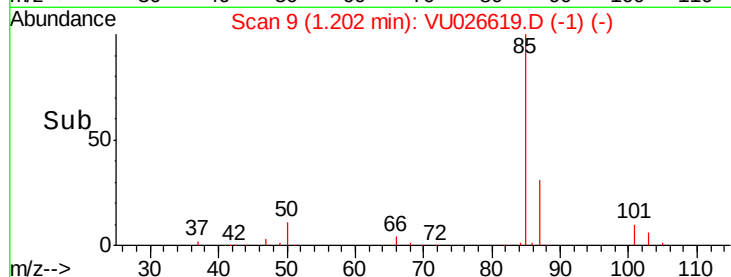
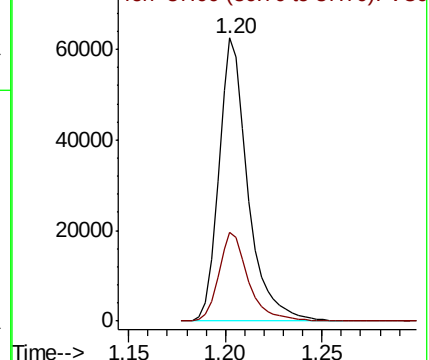
85 100

87 31.9 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 51.492 ug/L

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU026619.D

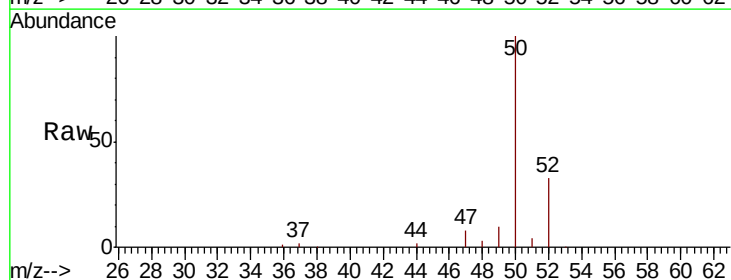
Acq: 07 Sep 2018 14:48

Tgt Ion: 50 Resp: 80004

Ion Ratio Lower Upper

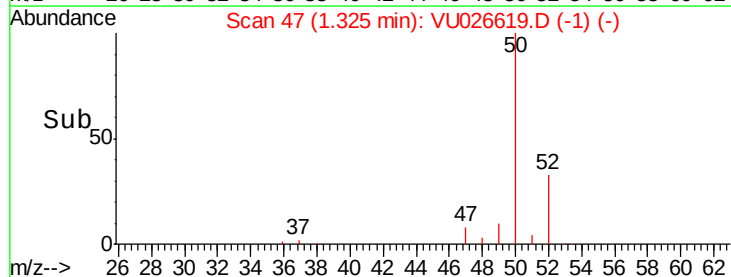
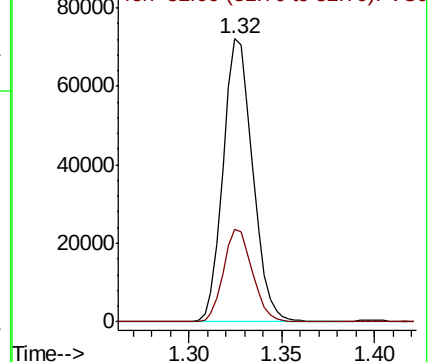
50 100

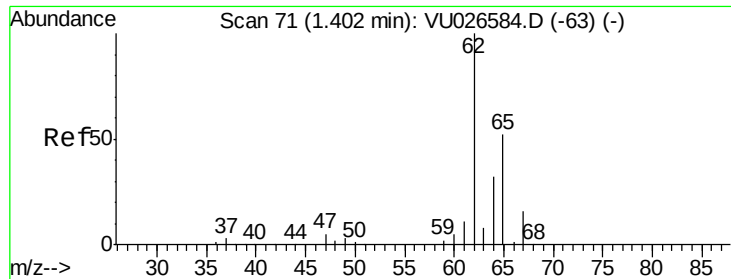
52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 49.796 ug/L

RT: 1.40 min Scan# 70

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

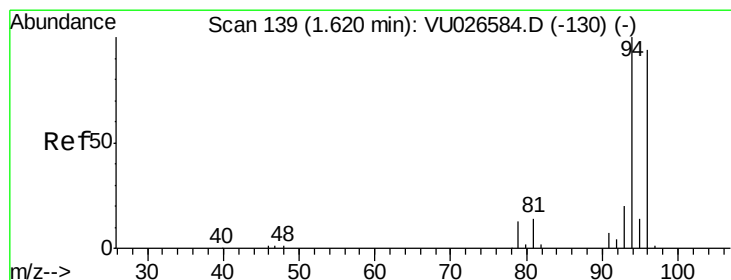
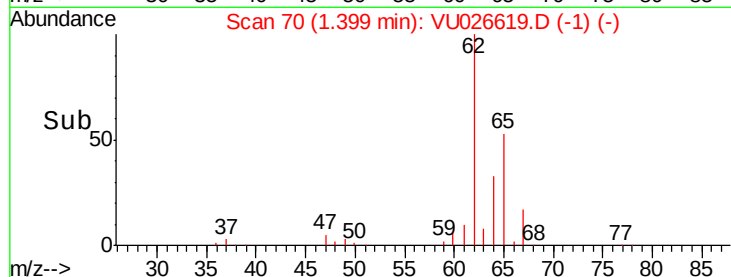
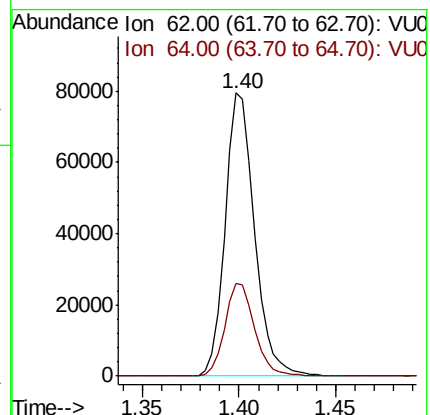
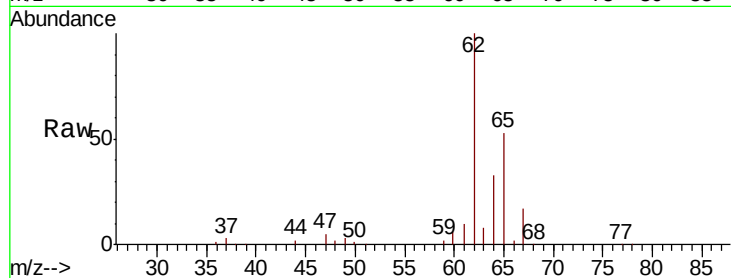
VSTD05043

Tot Ion: 62 Resp: 83876

Ion Ratio Lower Upper

62 100

64 32.9 22.4 41.6



#6

Bromomethane

Concen: 41.887 ug/L

RT: 1.62 min Scan# 138

Delta R.T. -0.00 min

Lab File: VU026619.D

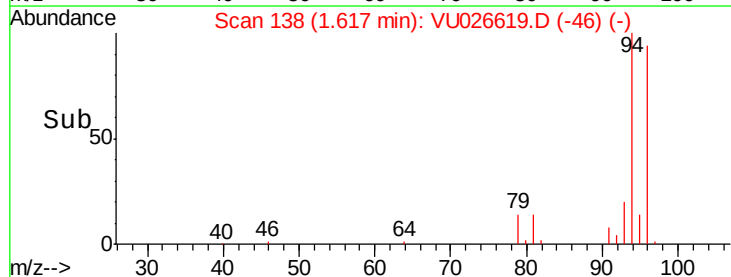
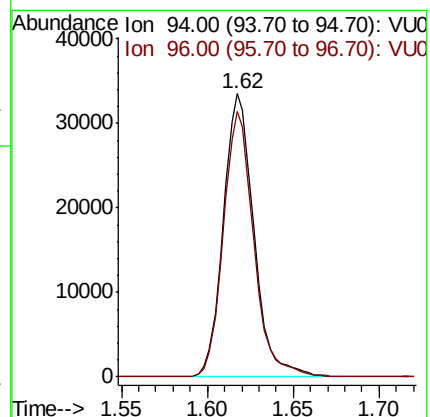
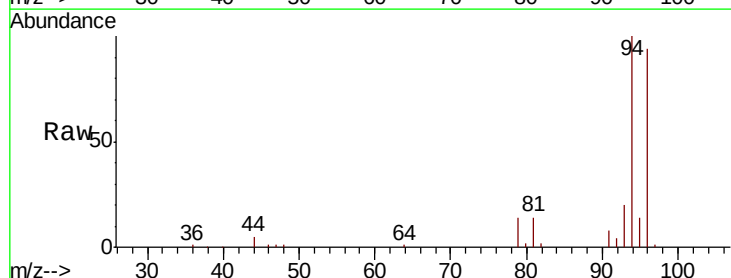
Acq: 07 Sep 2018 14:48

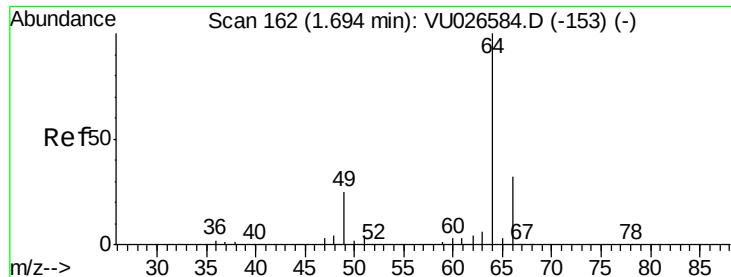
Tgt Ion: 94 Resp: 41828

Ion Ratio Lower Upper

94 100

96 93.7 65.3 121.3

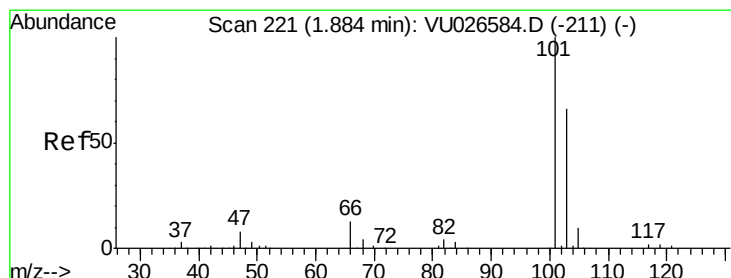
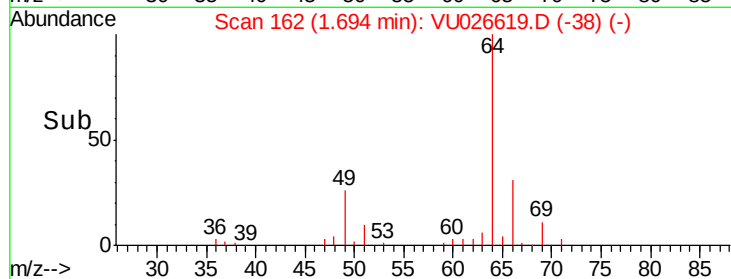
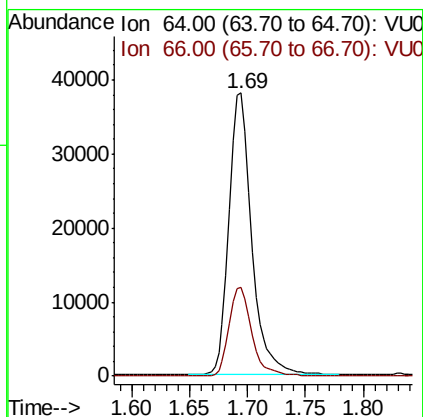
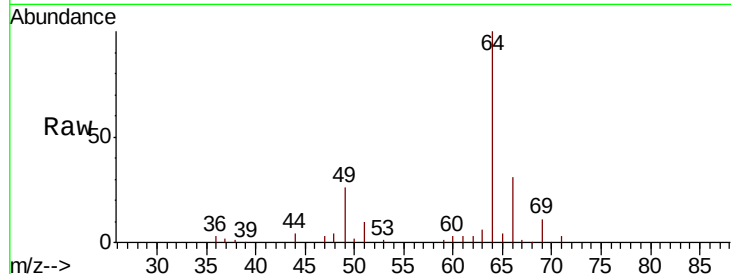




#8
Chloroethane
Concen: 50.613 ug/L
RT: 1.69 min Scan# 162
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

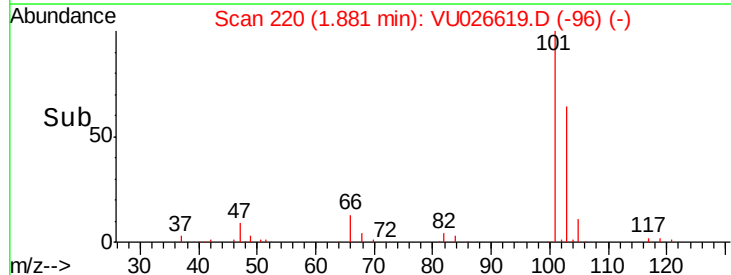
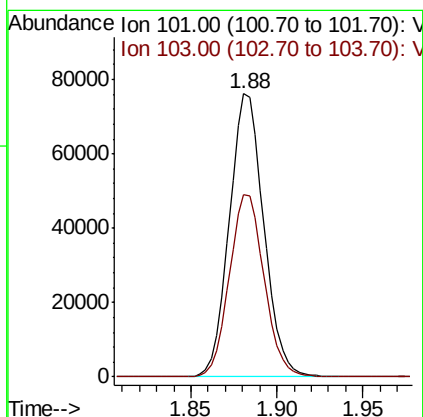
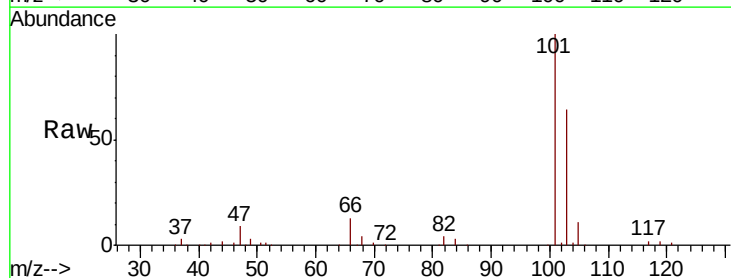
Instrument :
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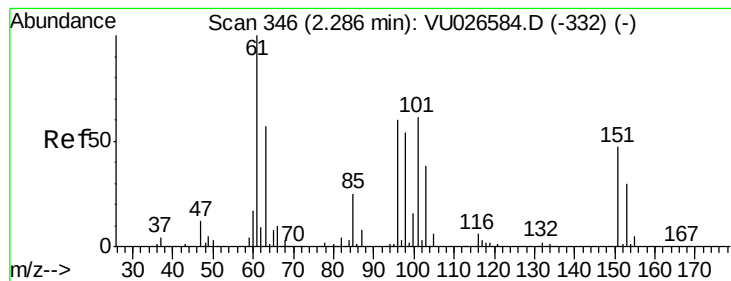
Tot Ion: 64 Resp: 51186
Ion Ratio Lower Upper
64 100
66 31.3 22.2 41.2



#9
Trichlorofluoromethane
Concen: 49.516 ug/L
RT: 1.88 min Scan# 220
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion:101 Resp: 106059
Ion Ratio Lower Upper
101 100
103 64.8 52.7 79.1





#10

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

Concen: 50.720 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

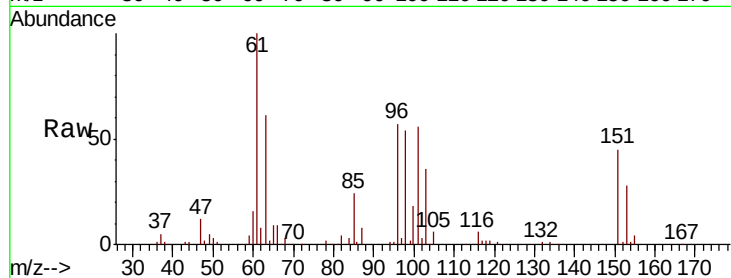
Tot Ion:101 Resp: 60617

Ion Ratio Lower Upper

101 100

85 42.0 35.3 52.9

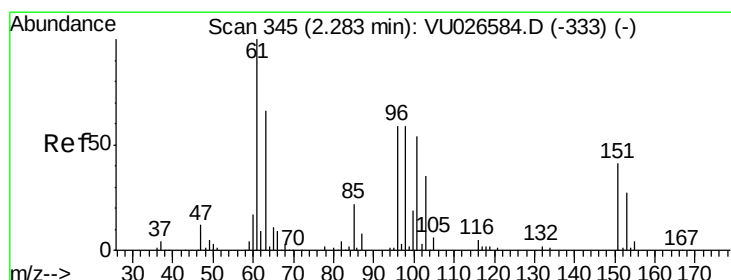
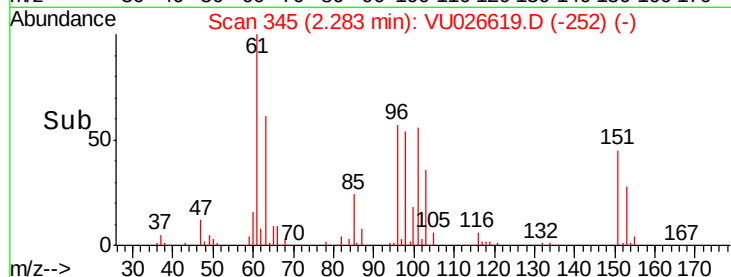
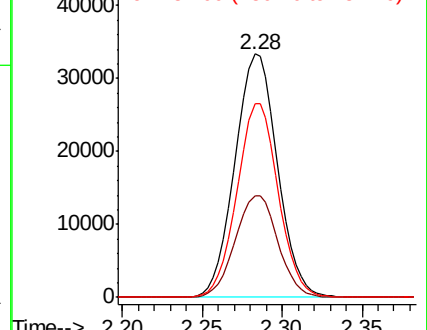
151 77.1 60.7 91.1



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: 46.947 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

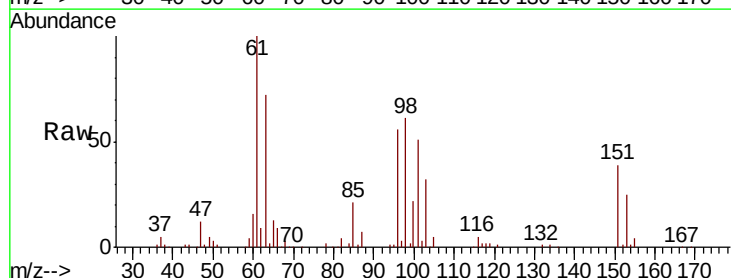
Tgt Ion: 96 Resp: 54079

Ion Ratio Lower Upper

96 100

61 178.1 129.3 240.1

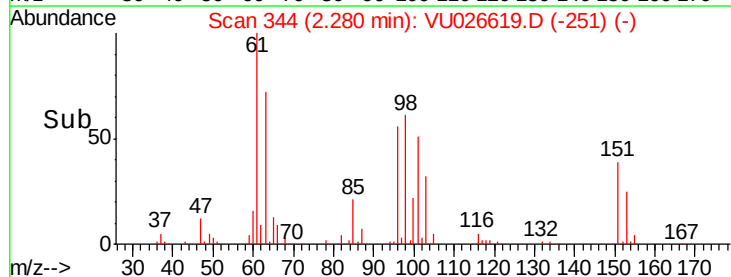
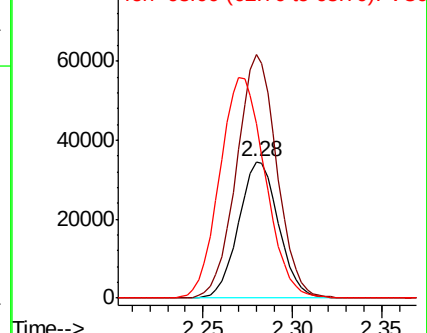
63 128.0 91.7 170.3

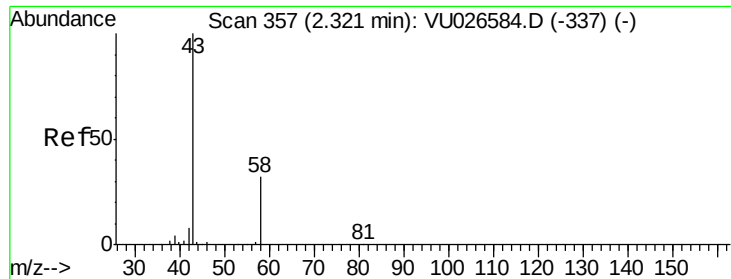


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 137.854 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

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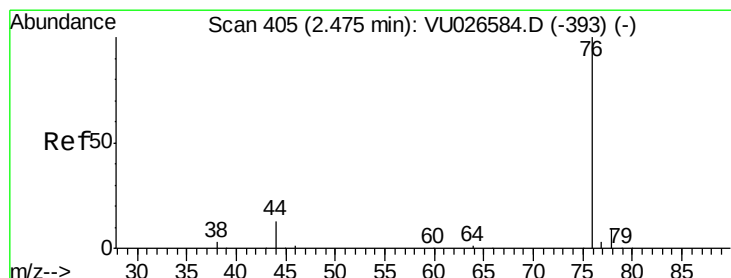
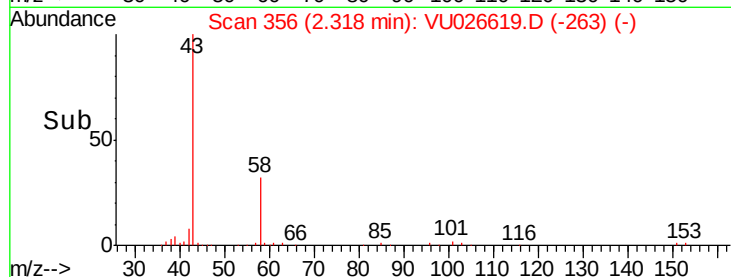
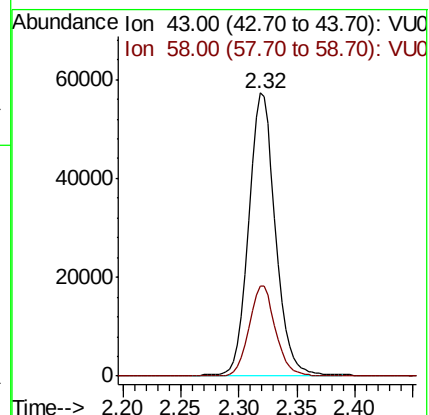
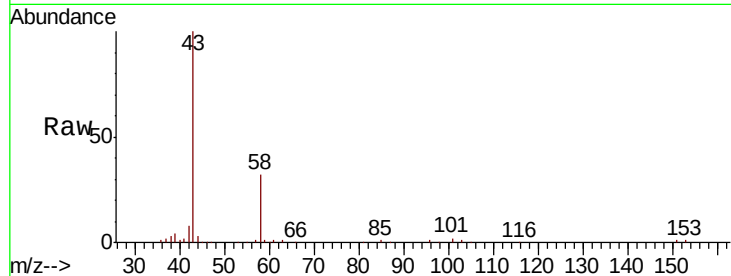
VSTD05043

Tot Ion: 43 Resp: 92635

Ion Ratio Lower Upper

43 100

58 31.4 0.0 61.2



#14

Carbon disulfide

Concen: 50.359 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU026619.D

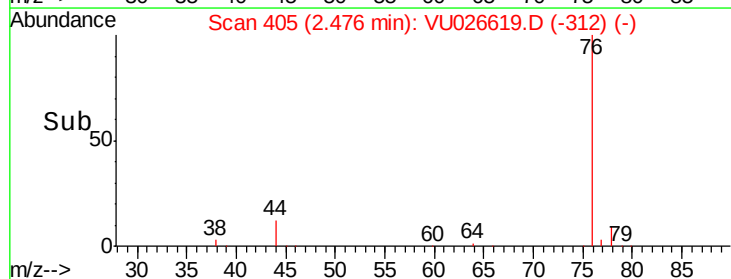
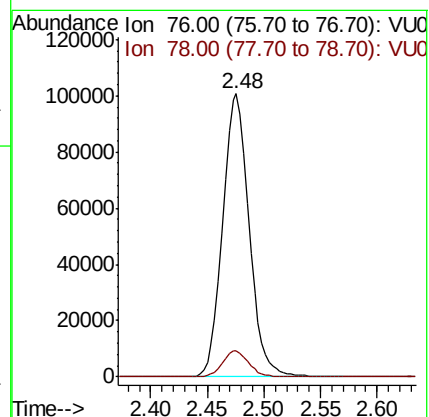
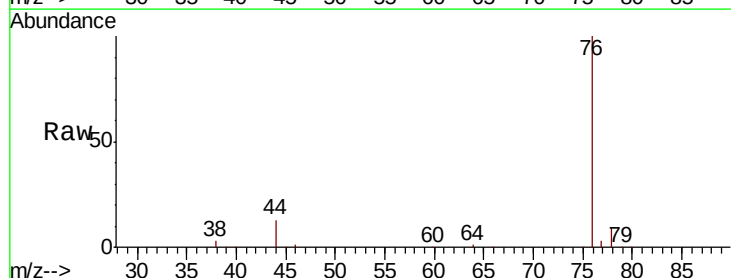
Acq: 07 Sep 2018 14:48

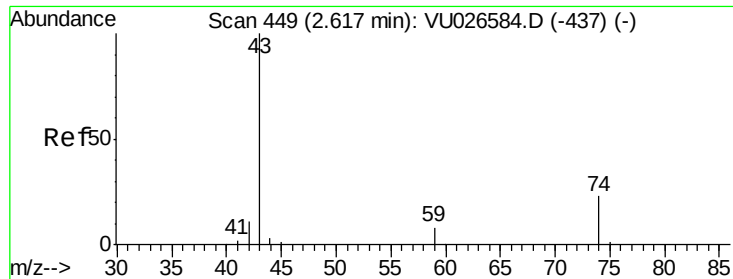
Tgt Ion: 76 Resp: 164162

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

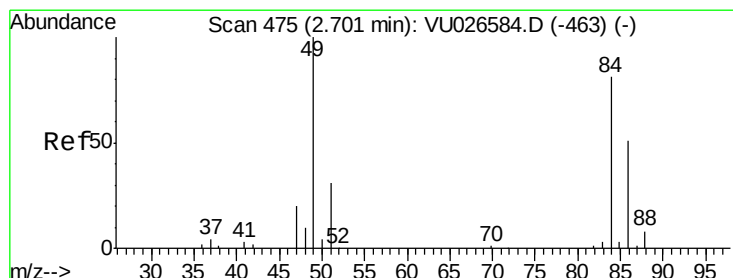
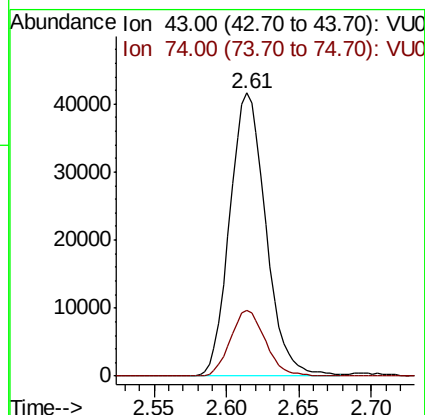
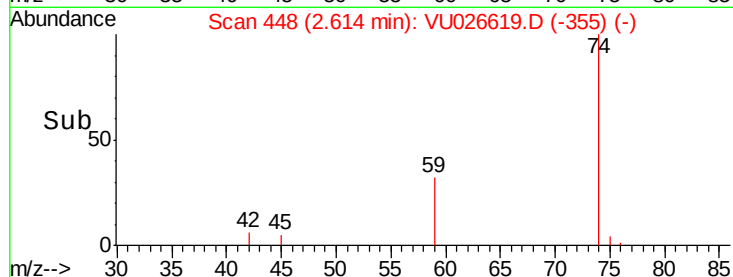
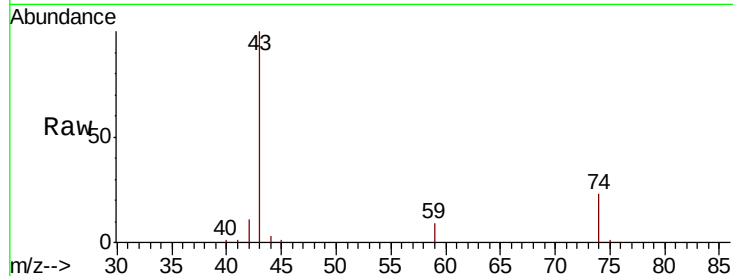




#15
Methvl Acetate
Concen: 54.514 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

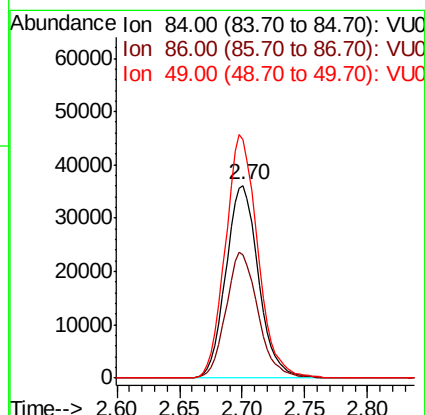
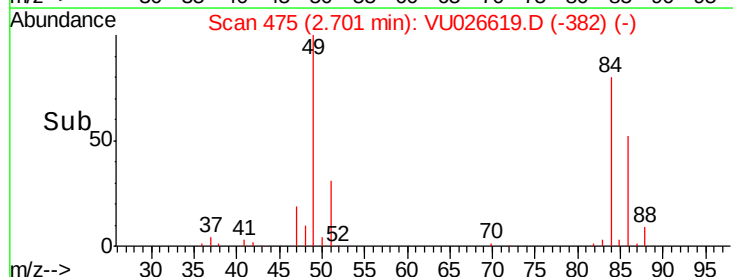
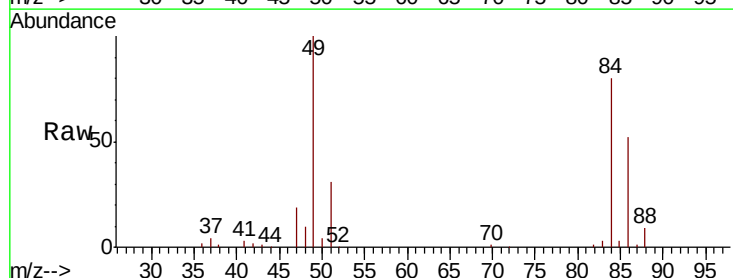
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

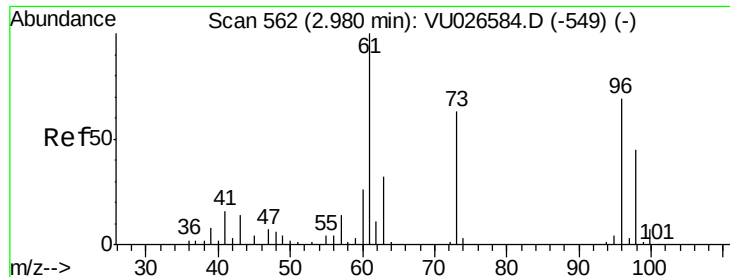
Tot Ion: 43 Resp: 71928
Ion Ratio Lower Upper
43 100
74 22.6 17.8 26.6



#16
Methylene chloride
Concen: 55.132 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion: 84 Resp: 65294
Ion Ratio Lower Upper
84 100
86 64.3 46.2 85.8
49 124.2 88.2 163.8





#17

trans-1,2-Dichloroethene

Concen: 53.736 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

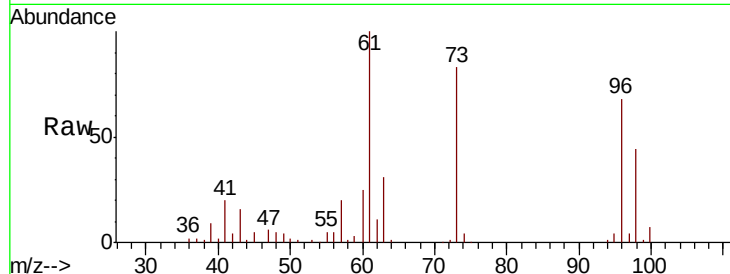
Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Tot Ion: 96 Resp: 55988

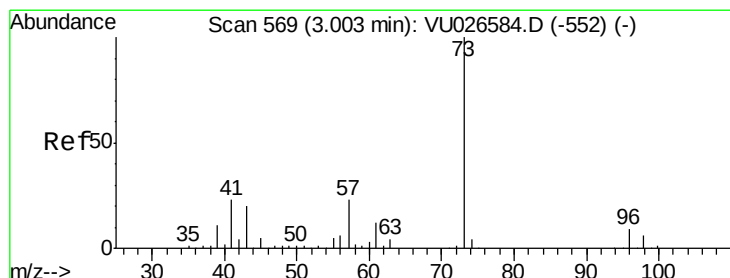
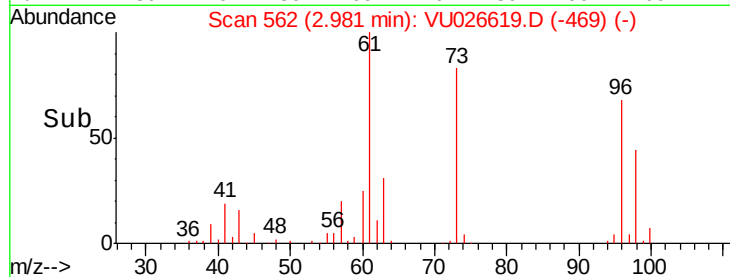
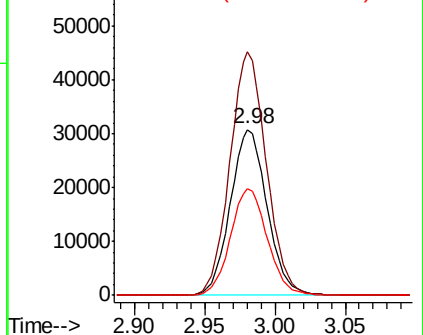
Ion	Ratio	Lower	Upper
96	100		
61	146.5	103.2	191.6
98	64.3	44.9	83.3



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 57.561 ug/L

RT: 3.00 min Scan# 567

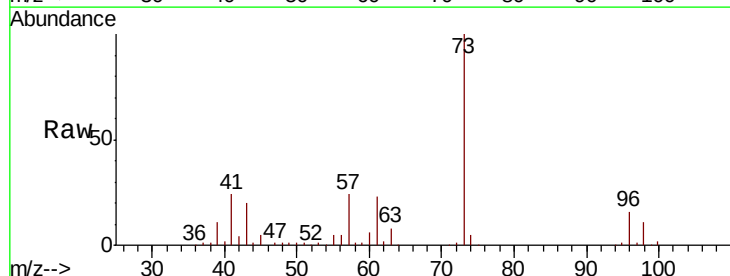
Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Tgt Ion: 73 Resp: 182063

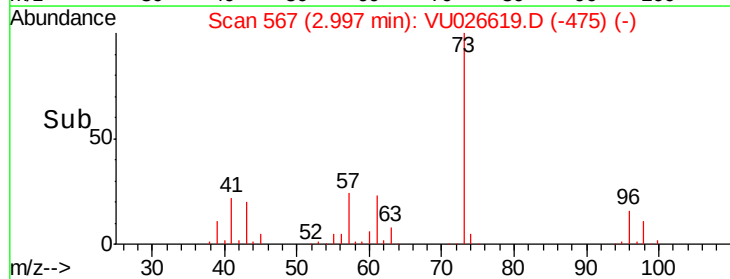
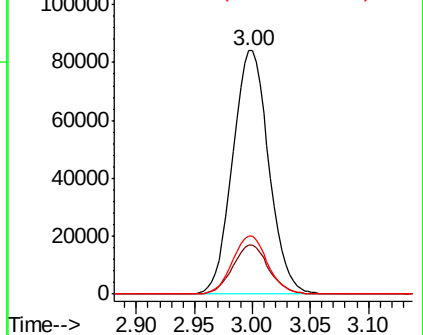
Ion	Ratio	Lower	Upper
73	100		
43	20.1	16.6	25.0
57	23.3	18.2	27.2

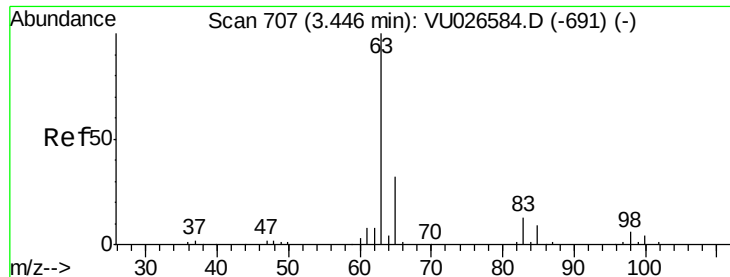


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

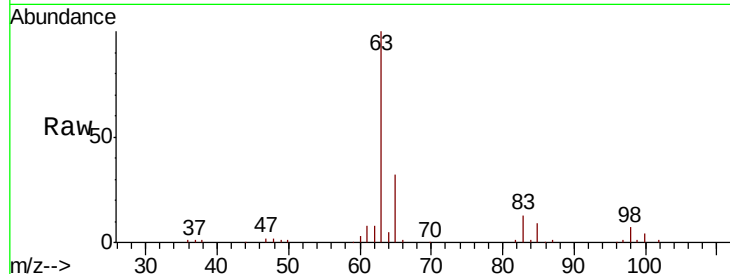




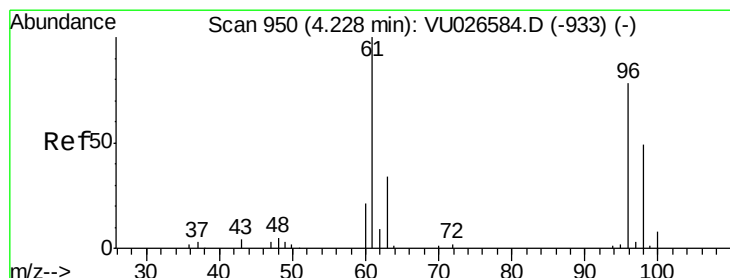
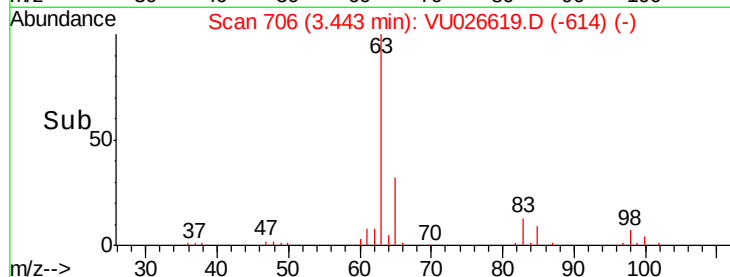
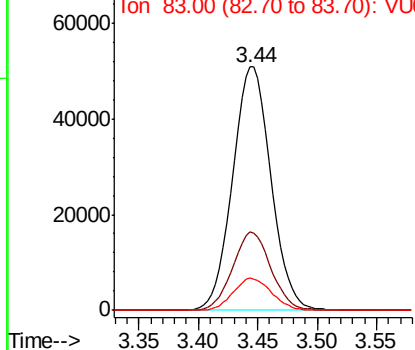
#19
 1,1-Dichloroethane
 Concen: 55.462 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tot Ion: 63 Resp: 113548
 Ion Ratio Lower Upper
 63 100
 65 32.1 21.6 40.2
 83 13.1 8.8 16.4

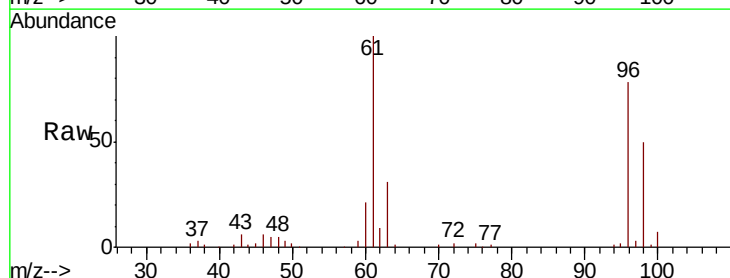


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

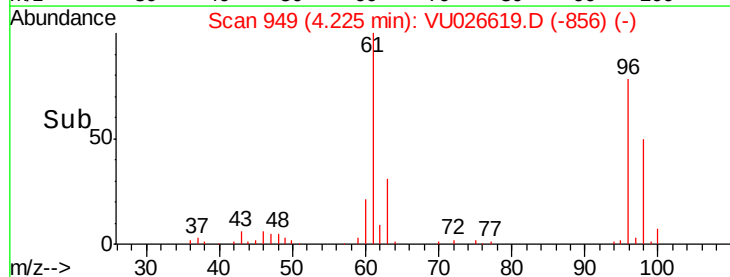
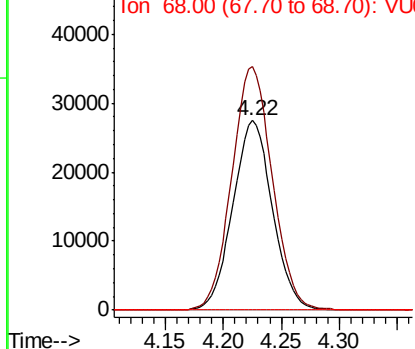


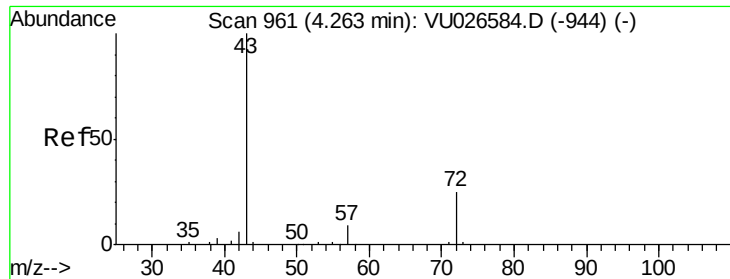
#20
 cis-1,2-Dichloroethene
 Concen: 55.947 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Tgt Ion: 96 Resp: 65302
 Ion Ratio Lower Upper
 96 100
 61 128.4 91.6 170.2
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 124.497 ug/L

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

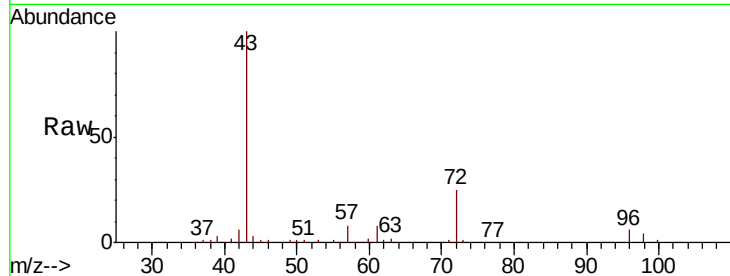
VSTD05043

Tot Ion: 43 Resp: 112450

Ion Ratio Lower Upper

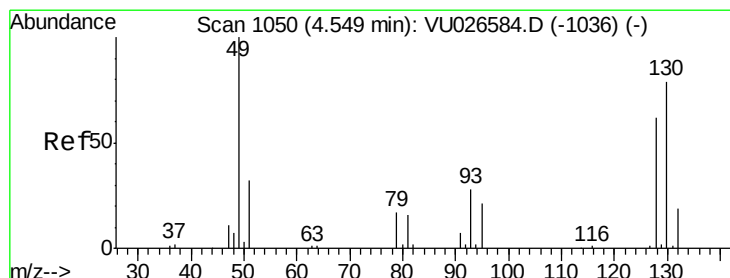
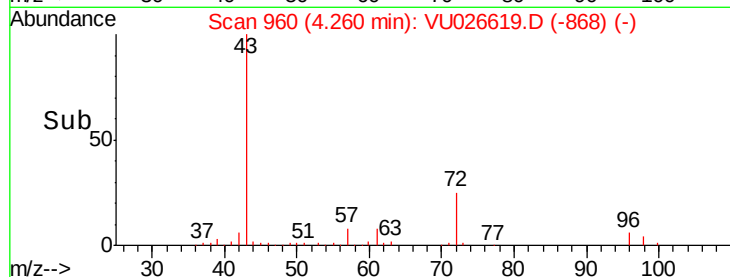
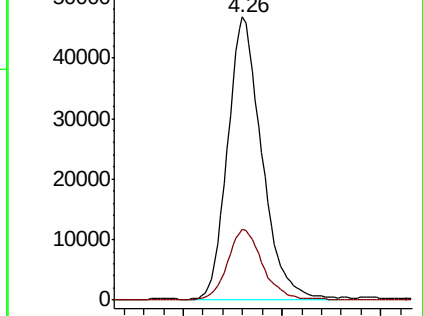
43 100

72 25.6 13.0 38.9



Abundance Ion 43.00 (42.70 to 43.70): VU026619.D (-868) (-)

Ion 72.00 (71.70 to 72.70): VU026619.D (-868) (-)



#23

Bromochloromethane

Concen: 56.274 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Tgt Ion:128 Resp: 33840

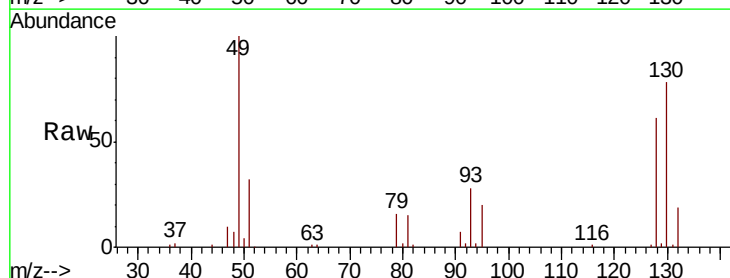
Ion Ratio Lower Upper

128 100

49 163.3 121.2 225.0

130 127.2 94.1 174.7

51 52.3 45.1 67.7

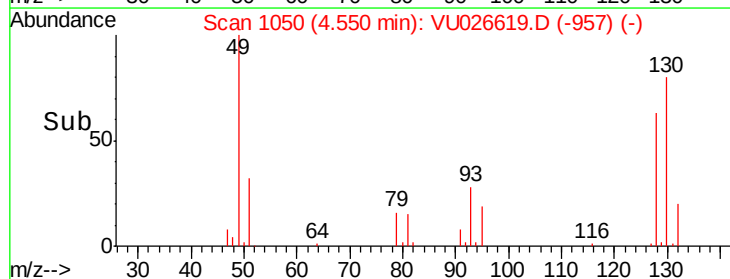
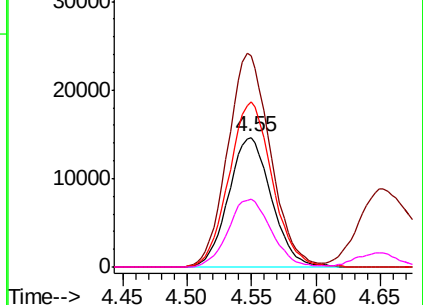


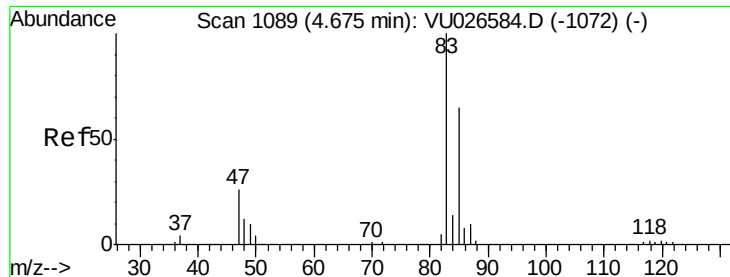
Abundance Ion 128.00 (127.70 to 128.70): VU026619.D (-957) (-)

Ion 49.00 (48.70 to 49.70): VU026619.D (-957) (-)

Ion 130.00 (129.70 to 130.70): VU026619.D (-957) (-)

Ion 51.00 (50.70 to 51.70): VU026619.D (-957) (-)

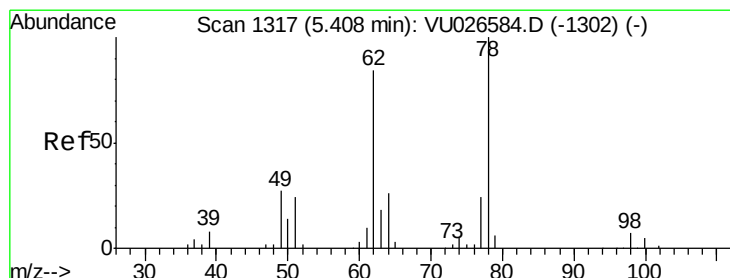
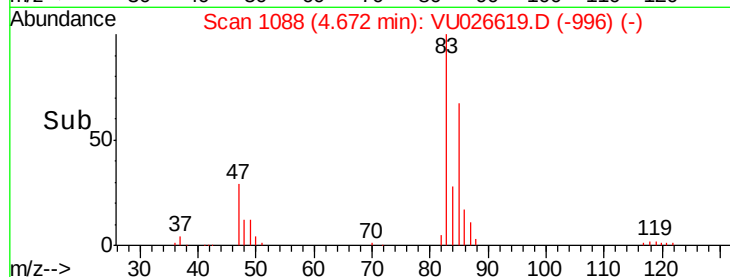
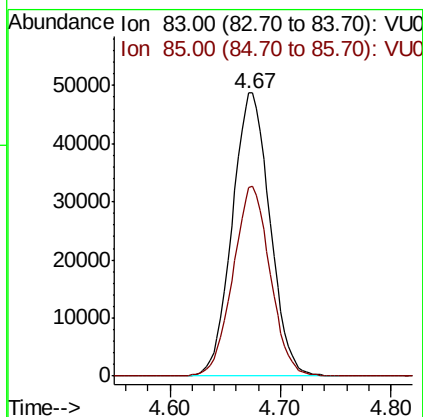
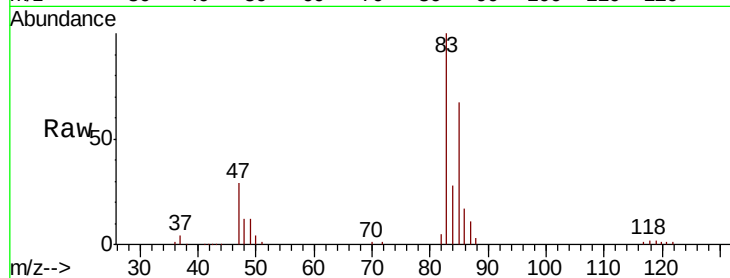




#25
Chloroform
Concen: 55.161 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

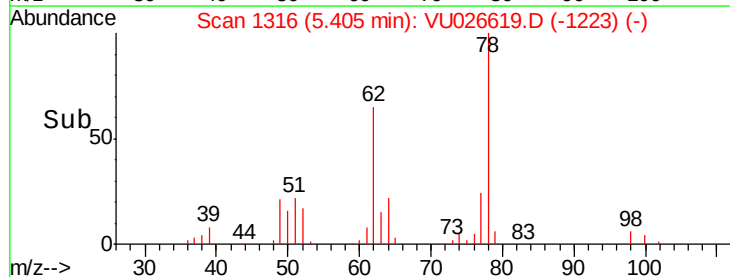
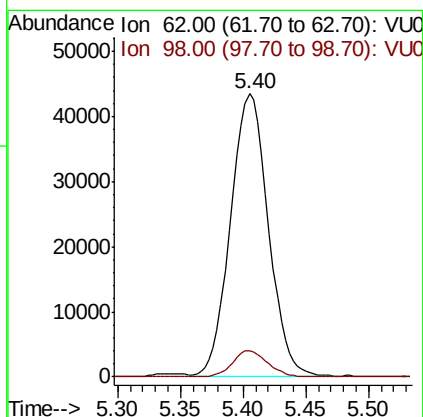
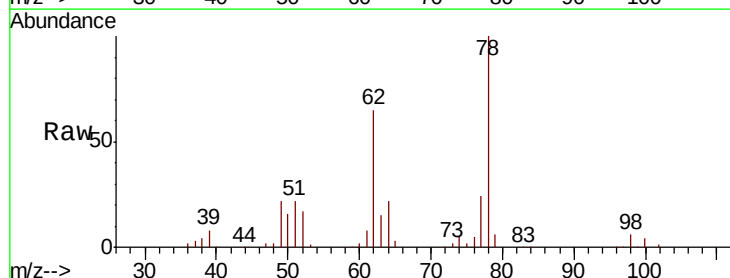
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

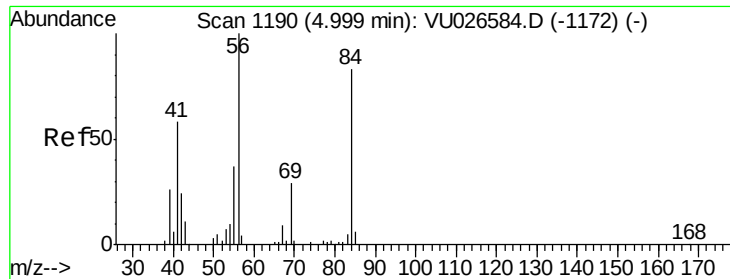
Tot Ion: 83 Resp: 115331
Ion Ratio Lower Upper
83 100
85 66.8 46.5 86.5



#27
1,2-Dichloroethane
Concen: 54.324 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion: 62 Resp: 91604
Ion Ratio Lower Upper
62 100
98 9.2 6.8 10.2

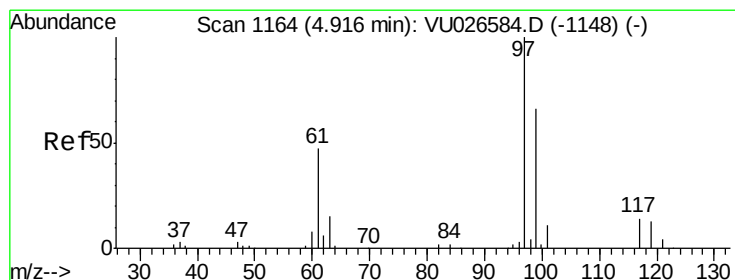
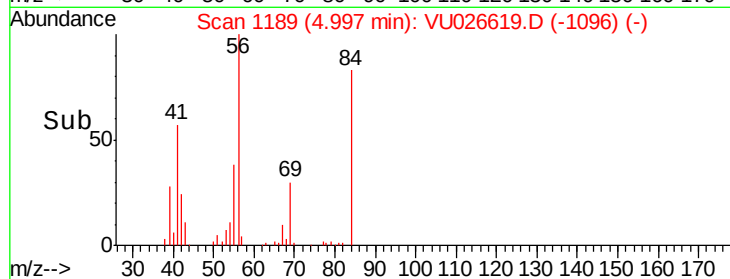
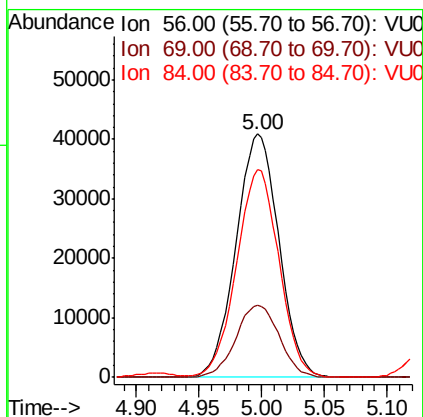
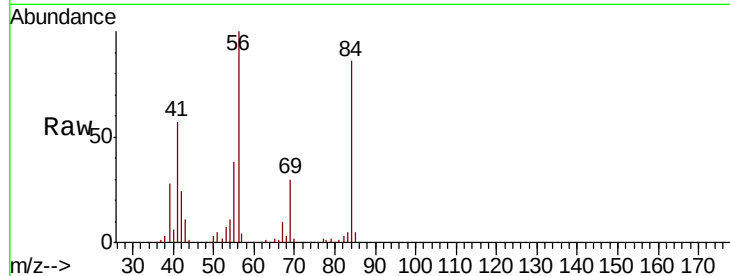




#29
Cyclohexane
Concen: 58.397 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

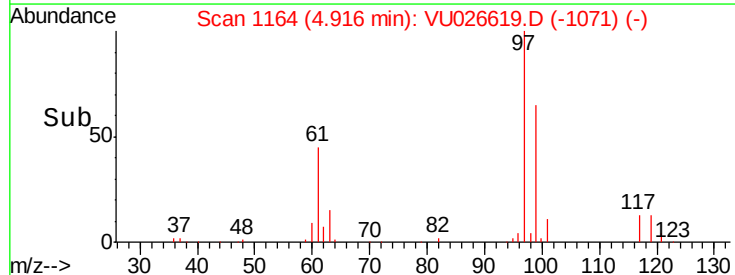
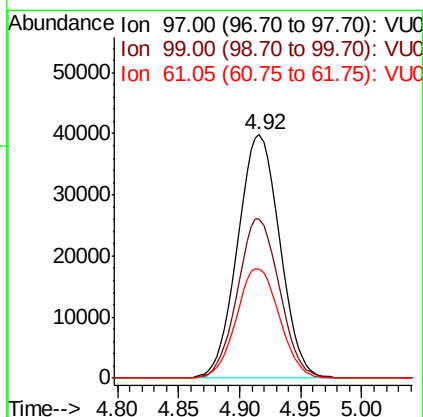
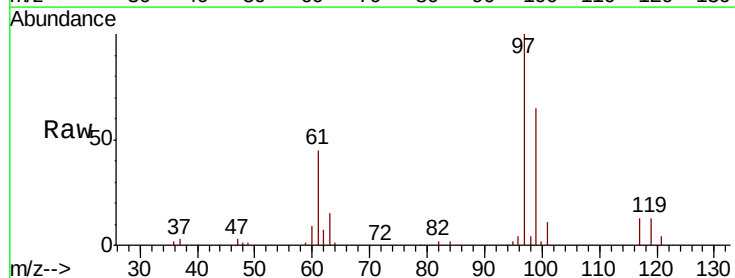
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

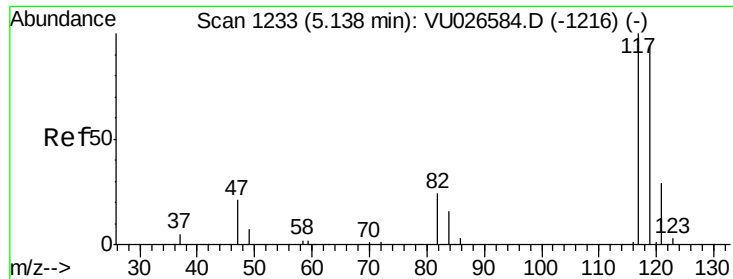
Tot Ion: 56 Resp: 97325
Ion Ratio Lower Upper
56 100
69 29.8 24.0 36.0
84 84.4 67.2 100.8



#30
1,1,1-Trichloroethane
Concen: 56.755 ug/L
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion: 97 Resp: 95534
Ion Ratio Lower Upper
97 100
99 65.2 51.6 77.4
61 45.8 37.9 56.9

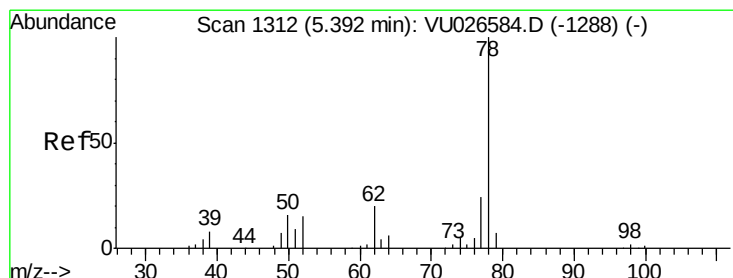
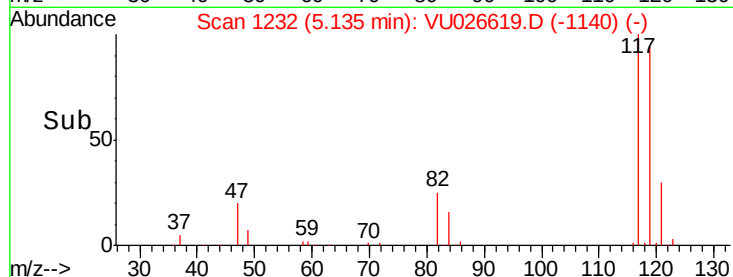
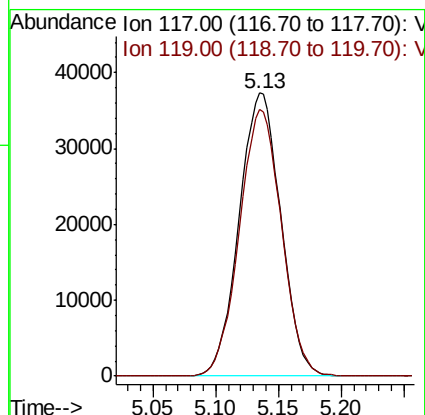
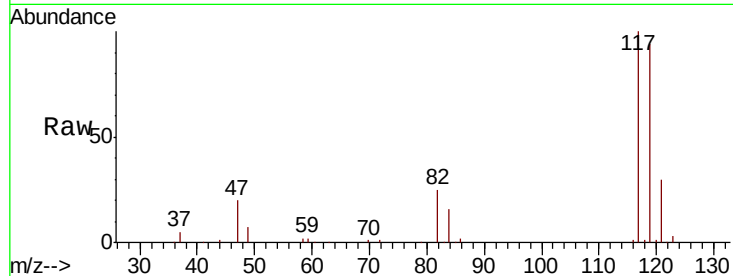




#31
Carbon tetrachloride
Concen: 56.395 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

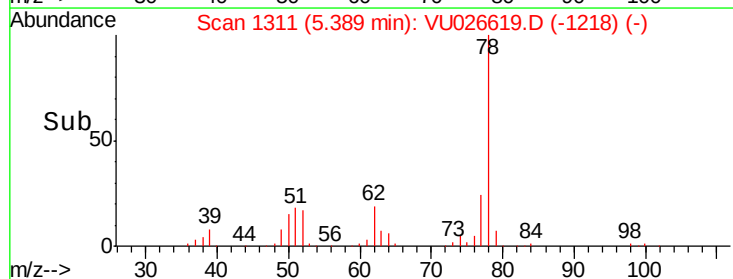
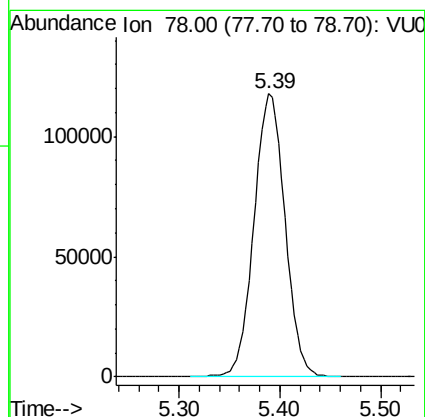
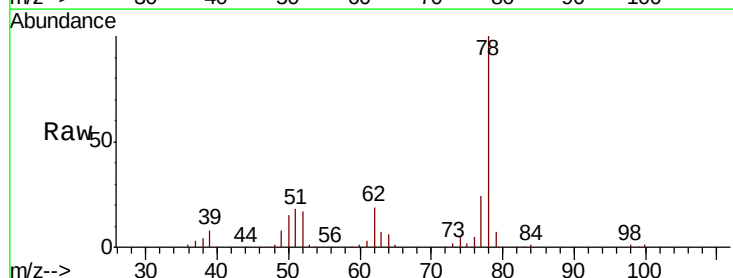
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

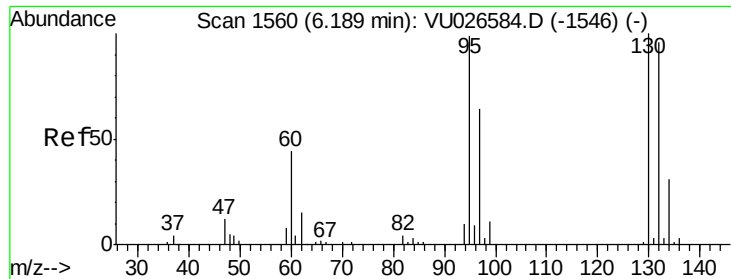
Tot Ion:117 Resp: 86252
Ion Ratio Lower Upper
117 100
119 94.9 76.4 114.6



#33
Benzene
Concen: 57.345 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion: 78 Resp: 251472





#34

Trichloroethene

Concen: 56.028 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

Tot Ion: 95 Resp: 61628

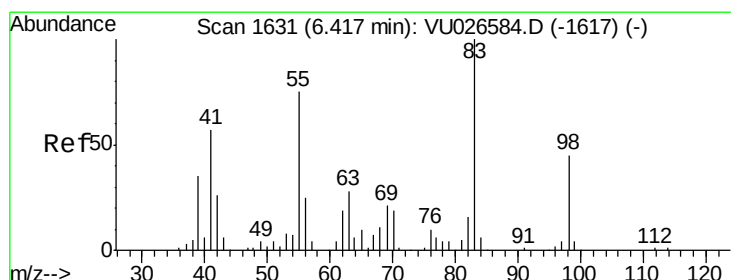
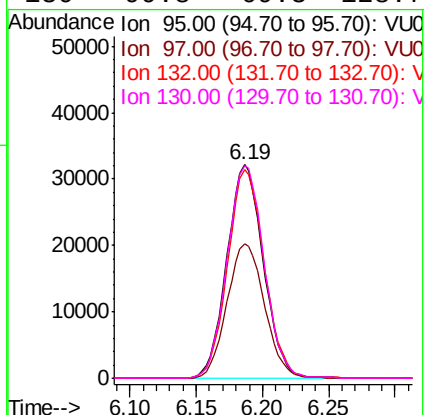
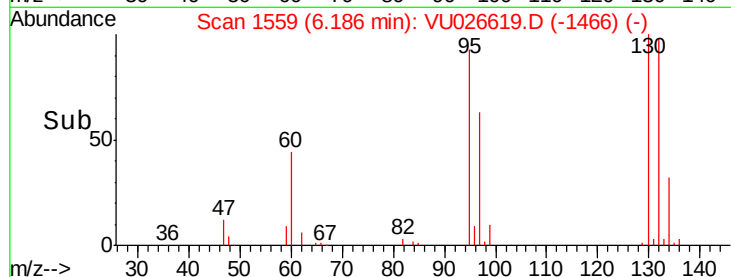
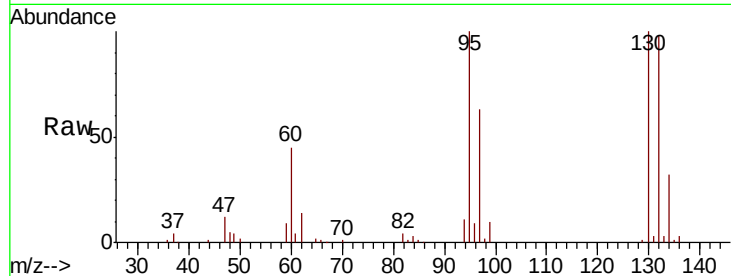
Ion Ratio Lower Upper

95 100

97 63.1 45.1 83.7

132 97.5 67.5 125.3

130 99.8 69.3 128.7



#35

Methylcyclohexane

Concen: 59.811 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

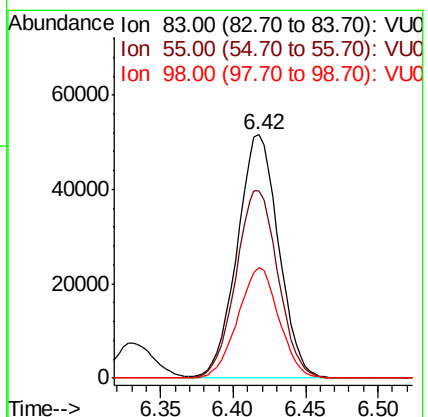
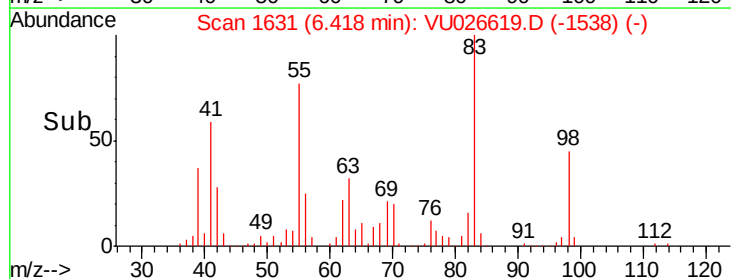
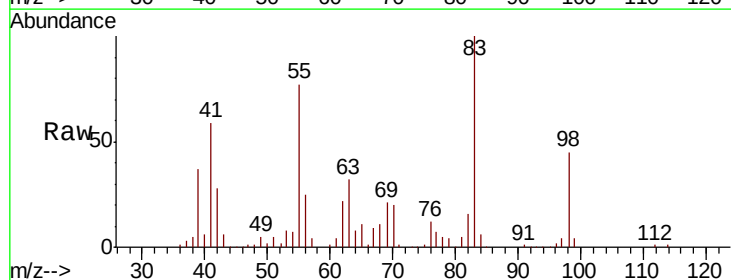
Tgt Ion: 83 Resp: 102728

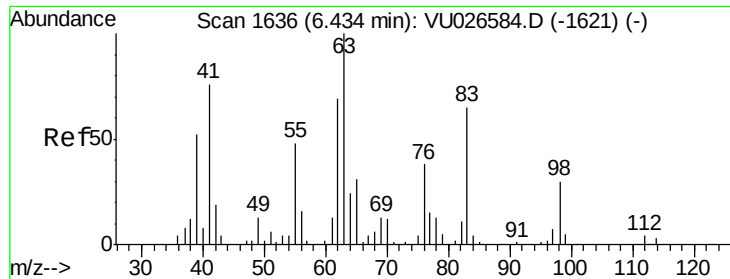
Ion Ratio Lower Upper

83 100

55 78.2 63.3 94.9

98 44.8 36.7 55.1

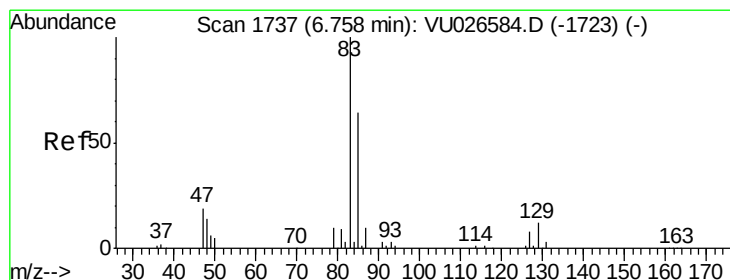
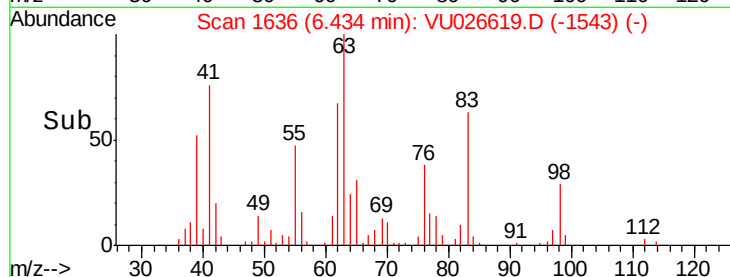
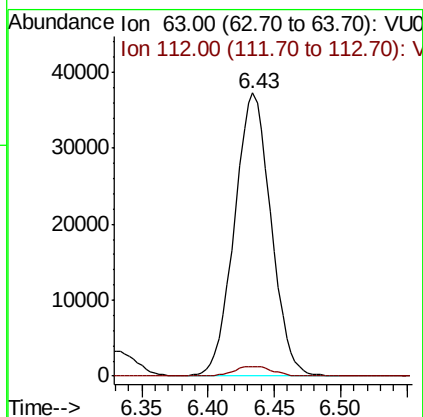
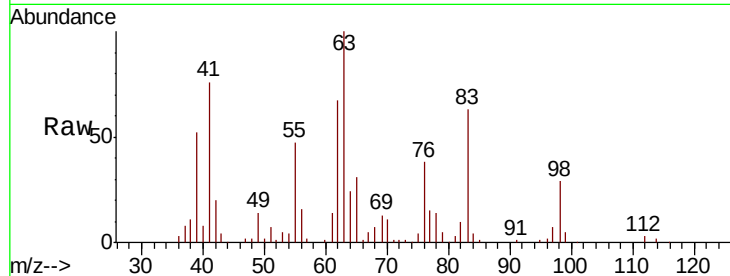




#37
 1,2-Dichloropropane
 Concen: 58.847 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

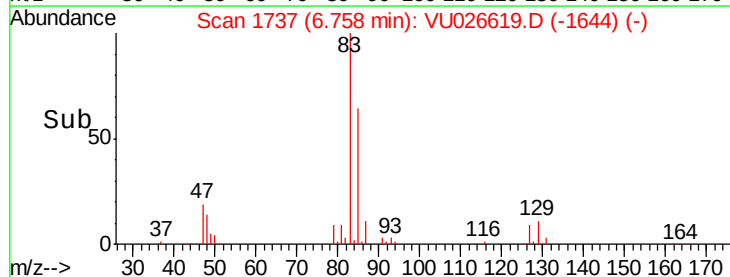
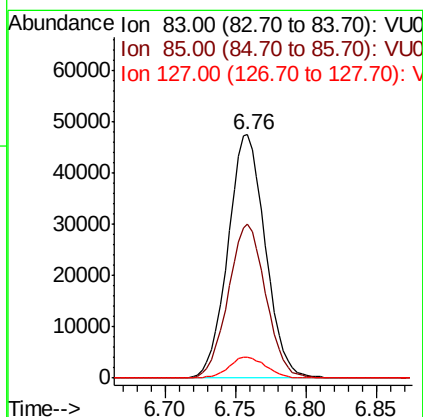
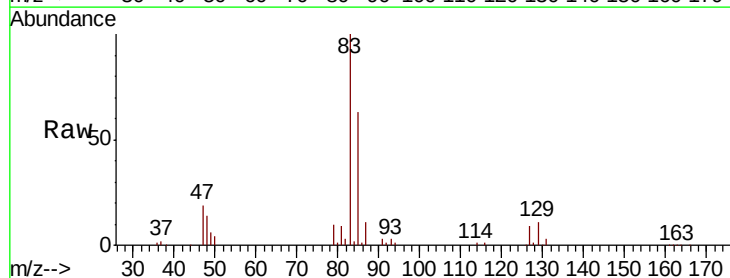
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

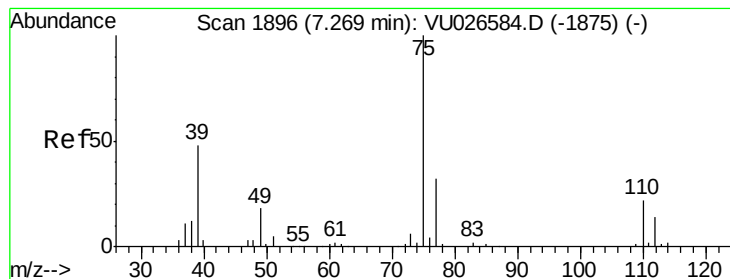
Tot Ion: 63 Resp: 71440
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.6



#38
 Bromodichloromethane
 Concen: 56.803 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Tgt Ion: 83 Resp: 87938
 Ion Ratio Lower Upper
 83 100
 85 63.1 43.9 81.5
 127 8.6 7.0 10.6



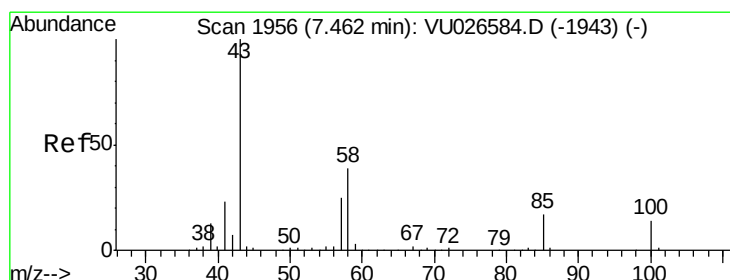
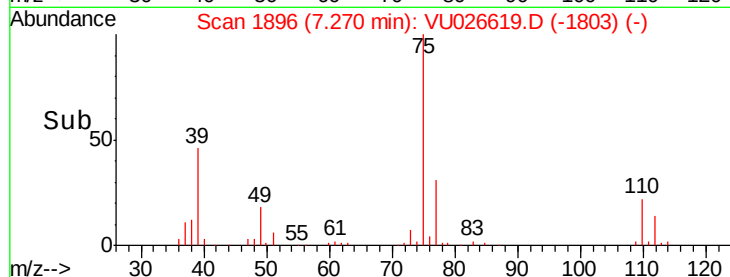
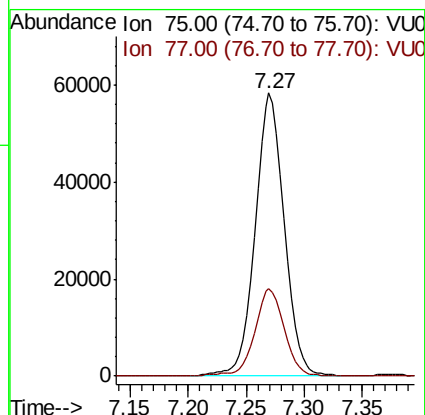
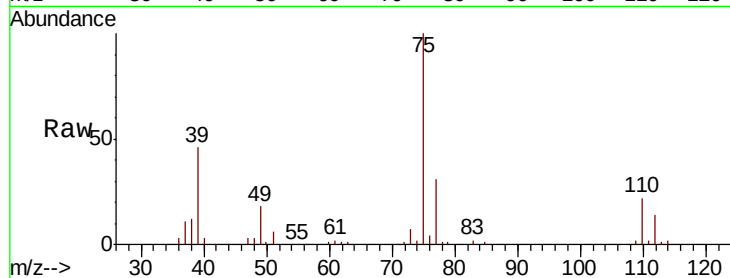


#39

cis-1,3-Dichloropropene
 Concen: 59.189 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

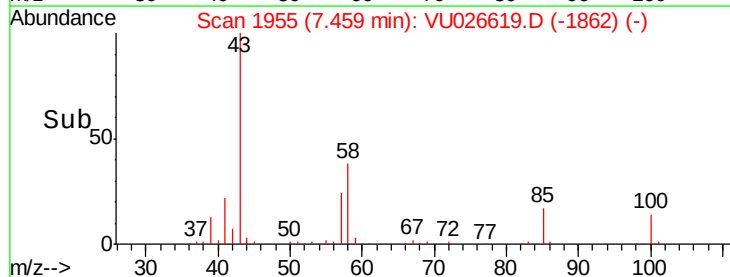
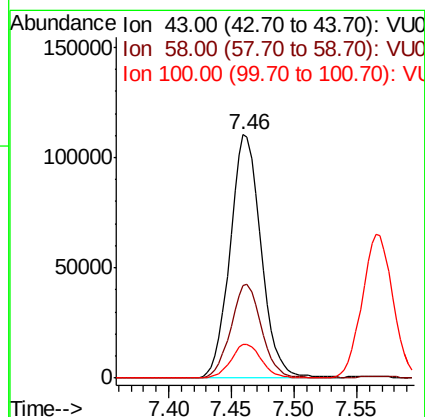
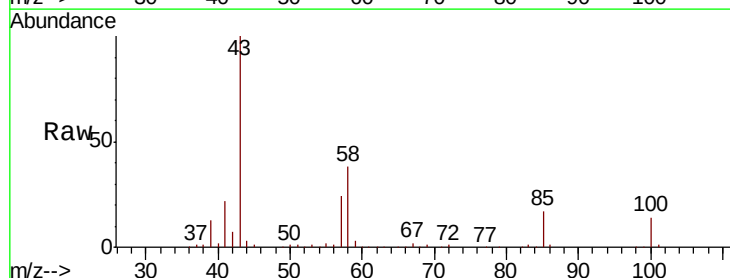
Tot Ion: 75 Resp: 102386
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.2 41.2

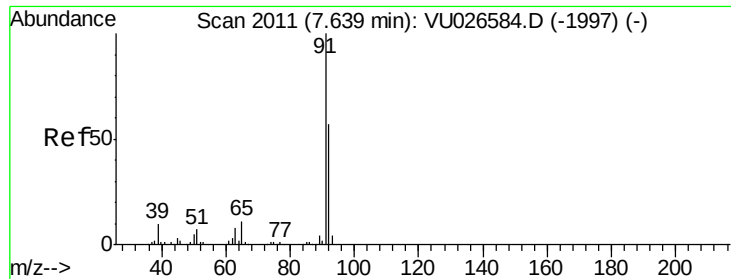


#40

4-Methyl-2-pentanone
 Concen: 115.929 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Tgt Ion: 43 Resp: 189802
 Ion Ratio Lower Upper
 43 100
 58 38.1 30.4 45.6
 100 13.8 11.0 16.4





#42

Toluene

Concen: 57.757 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

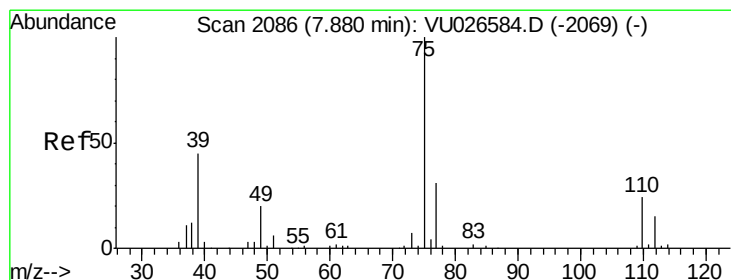
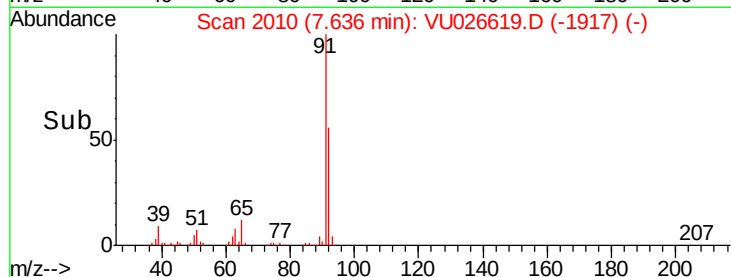
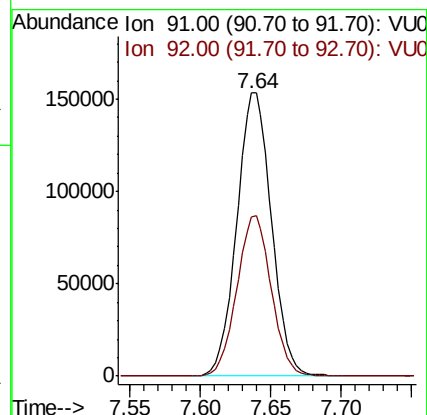
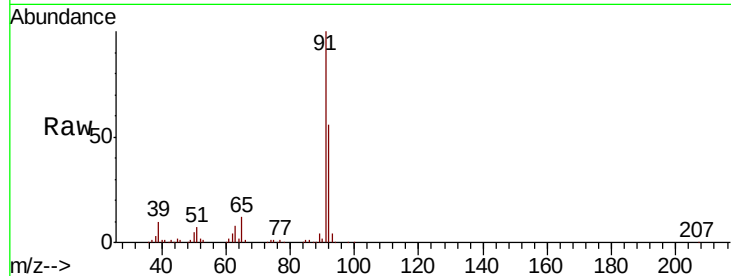
VSTD05043

Tot Ion: 91 Resp: 264284

Ion Ratio Lower Upper

91 100

92 56.2 38.7 71.9



#44

trans-1,3-Dichloropropene

Concen: 58.070 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU026619.D

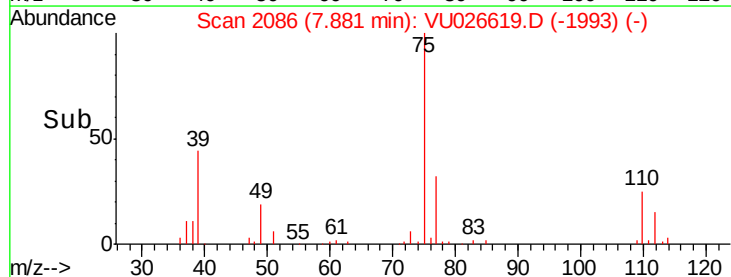
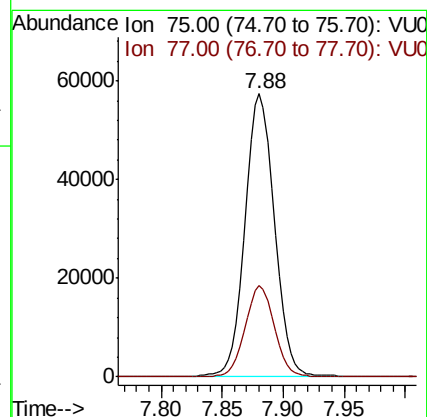
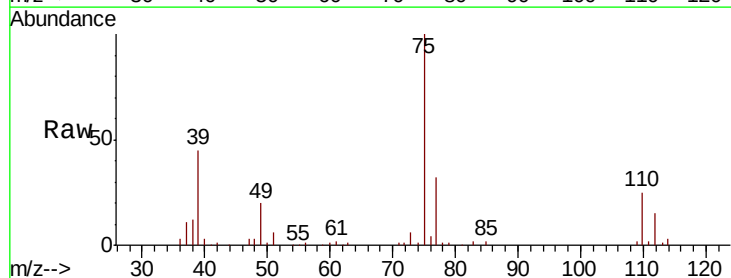
Acq: 07 Sep 2018 14:48

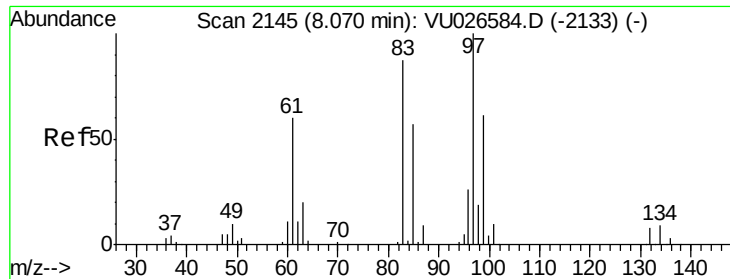
Tgt Ion: 75 Resp: 95742

Ion Ratio Lower Upper

75 100

77 32.3 22.1 41.1

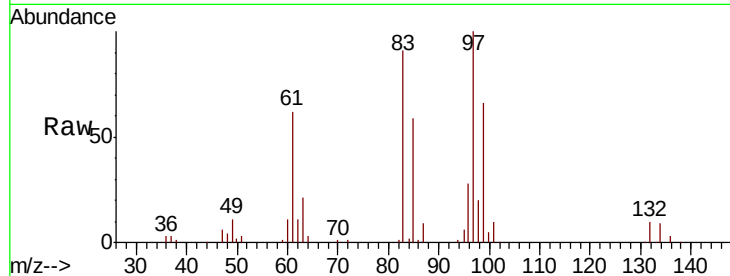




#45
 1,1,2-Trichloroethane
 Concen: 56.503 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tot Ion:	97	Resp:	62840
Ion	Ratio	Lower	Upper
97	100		
99	65.5	43.9	81.5
83	91.3	62.7	116.5
85	58.5	39.4	73.2



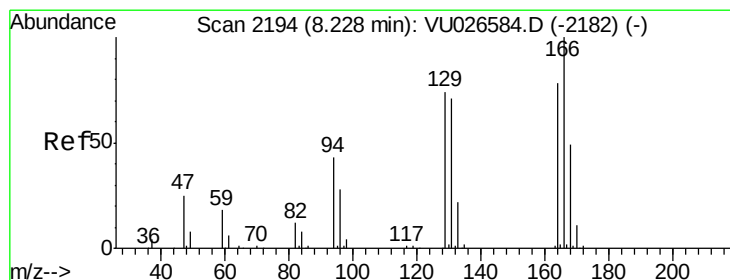
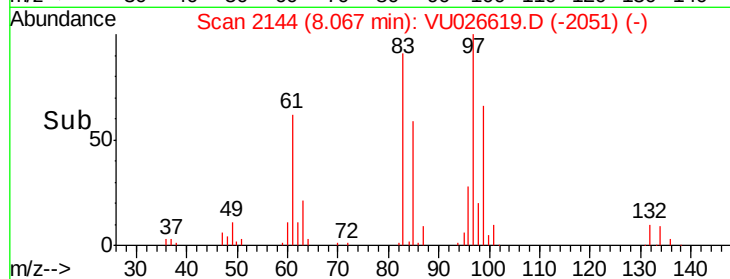
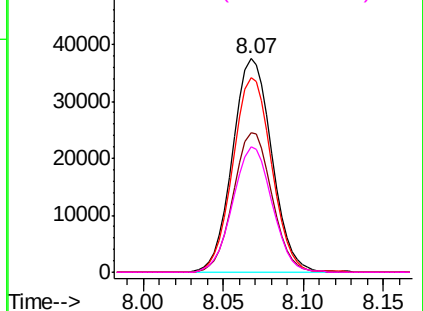
Abundance

Ion 97.00 (96.70 to 97.70): VU026619.D (-2133) (-)

Ion 99.00 (98.70 to 99.70): VU026619.D (-2133) (-)

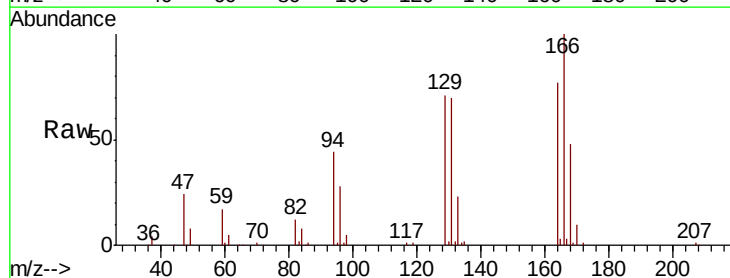
Ion 83.00 (82.70 to 83.70): VU026619.D (-2133) (-)

Ion 85.00 (84.70 to 85.70): VU026619.D (-2133) (-)



#46
 Tetrachloroethene
 Concen: 57.390 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Tgt Ion:	164	Resp:	51611
Ion	Ratio	Lower	Upper
164	100		
129	92.1	67.3	125.1
131	90.6	65.3	121.3
166	129.7	90.9	168.7



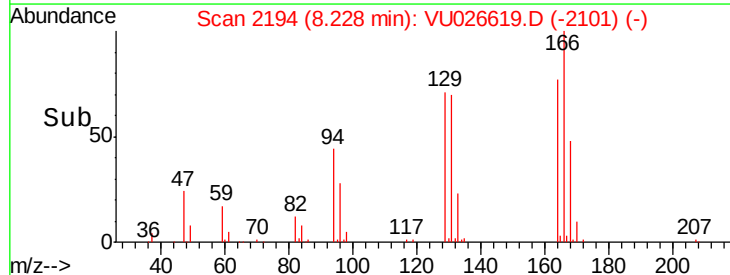
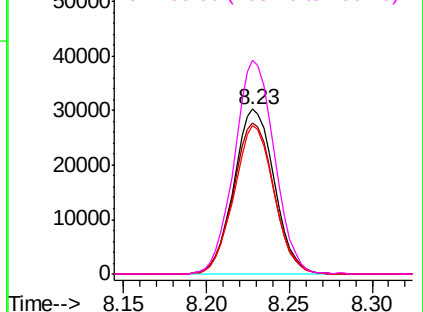
Abundance

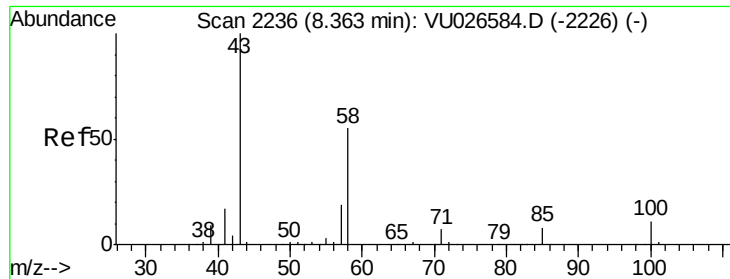
Ion 164.00 (163.70 to 164.70): VU026619.D (-2182) (-)

Ion 129.00 (128.70 to 129.70): VU026619.D (-2182) (-)

Ion 131.00 (130.70 to 131.70): VU026619.D (-2182) (-)

Ion 166.00 (165.70 to 166.70): VU026619.D (-2182) (-)

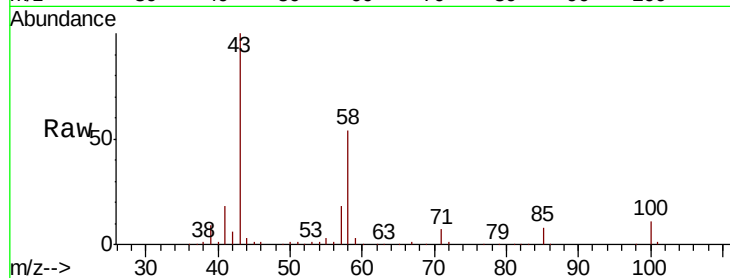




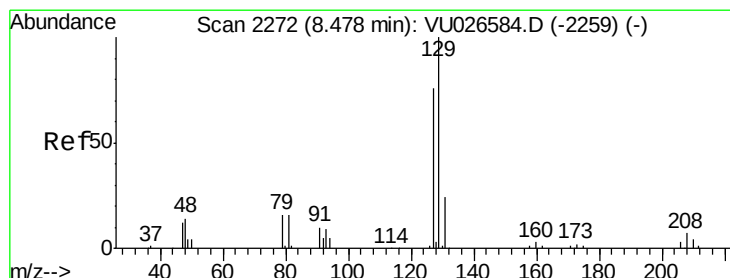
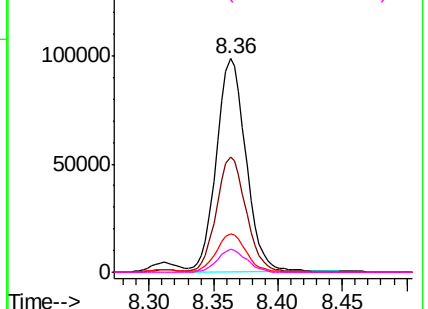
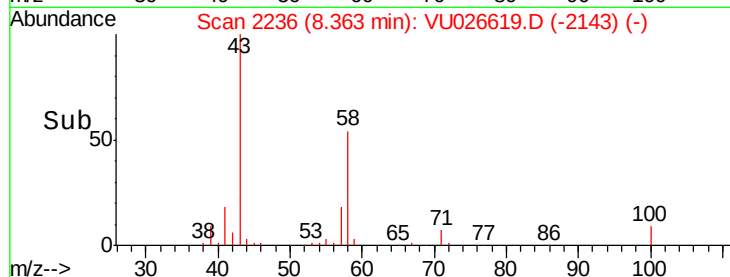
#48
2-Hexanone
Concen: 121.677 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Tot Ion: 43 Resp: 156898
Ion Ratio Lower Upper
43 100
58 54.5 42.2 63.4
57 18.4 14.6 21.8
100 10.7 8.3 12.5

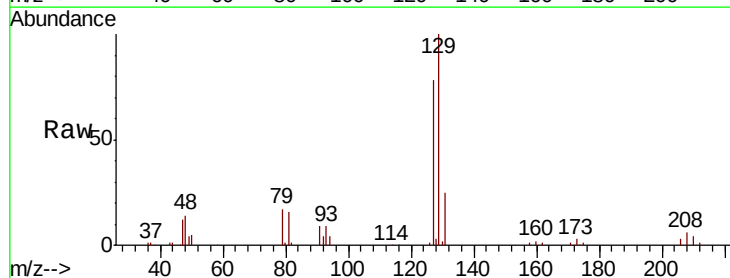


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

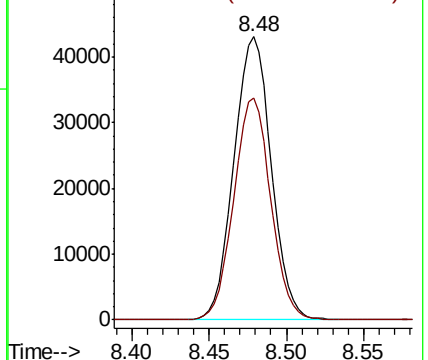
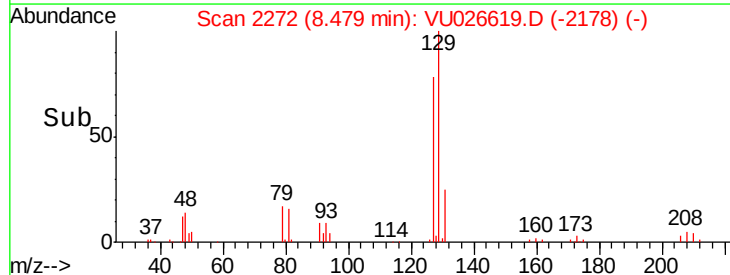


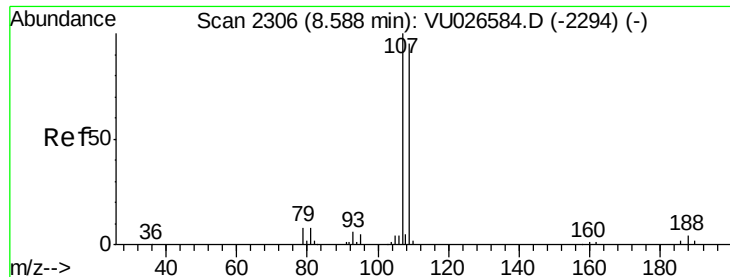
#49
Dibromochloromethane
Concen: 57.738 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion: 129 Resp: 72353
Ion Ratio Lower Upper
129 100
127 78.4 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

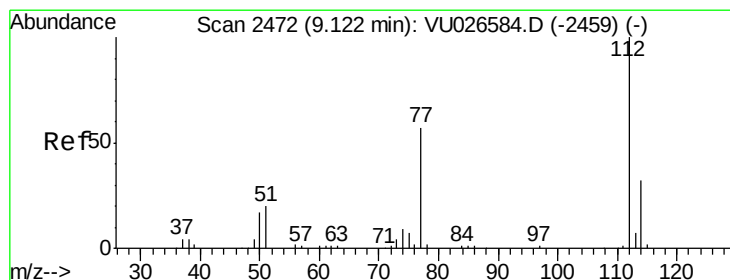
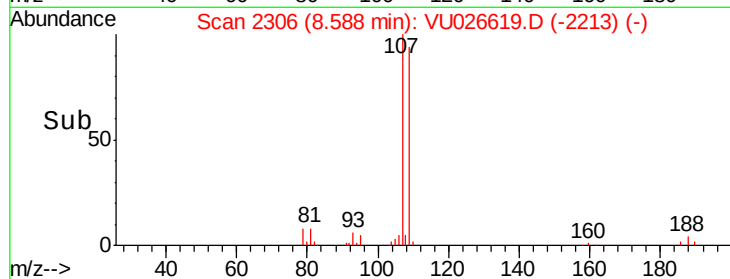
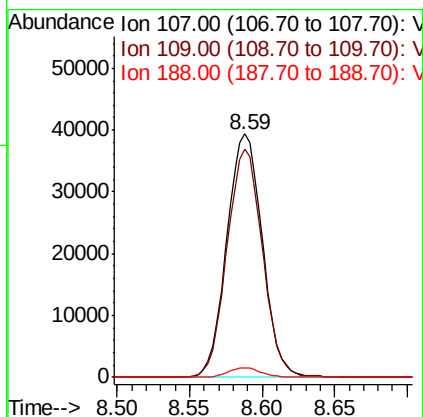
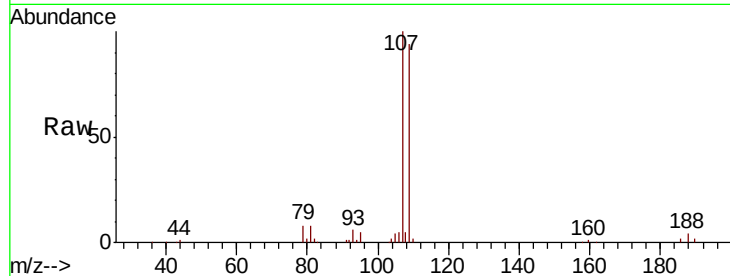




#50
1,2-Dibromoethane
Concen: 56.708 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

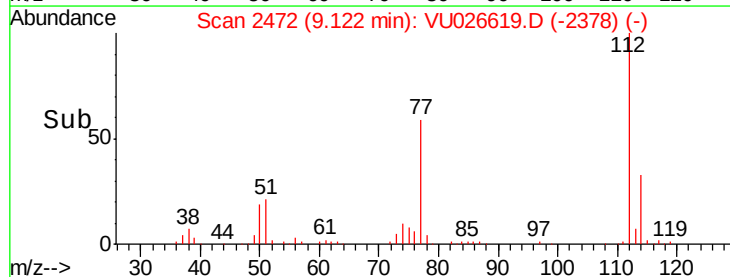
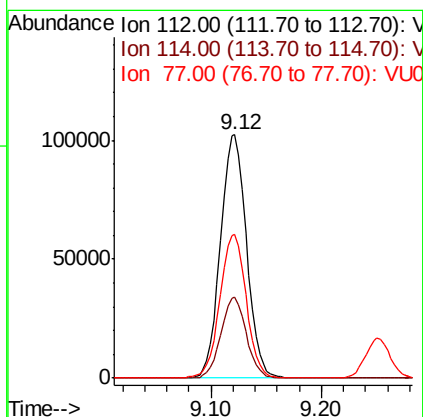
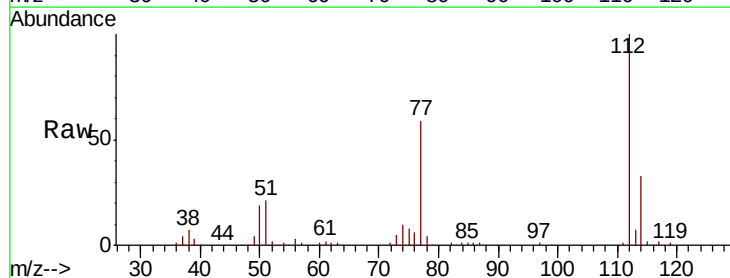
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

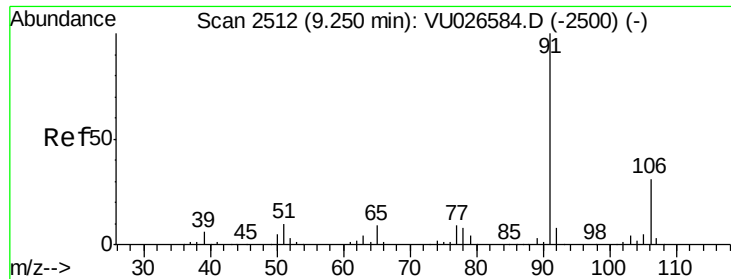
Tot Ion:107 Resp: 67159
Ion Ratio Lower Upper
107 100
109 94.0 63.4 117.8
188 3.9 3.2 4.8



#51
Chlorobenzene
Concen: 54.941 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU026619.D
Acq: 07 Sep 2018 14:48

Tgt Ion:112 Resp: 168116
Ion Ratio Lower Upper
112 100
114 33.0 23.2 43.2
77 58.9 47.3 70.9





#52

Ethylbenzene

Concen: 56.926 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

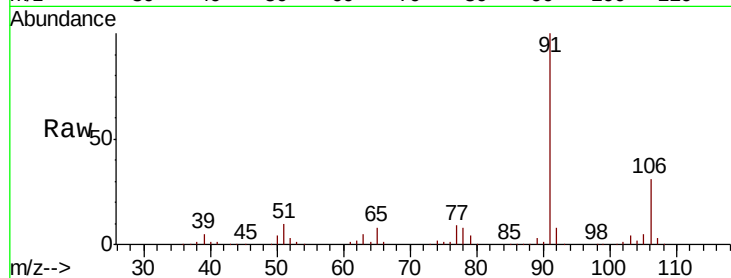
VSTD05043

Tot Ion: 91 Resp: 283304

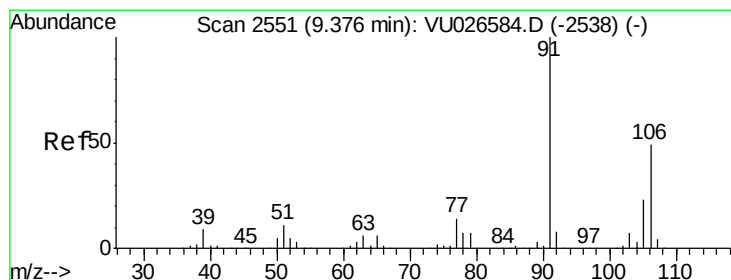
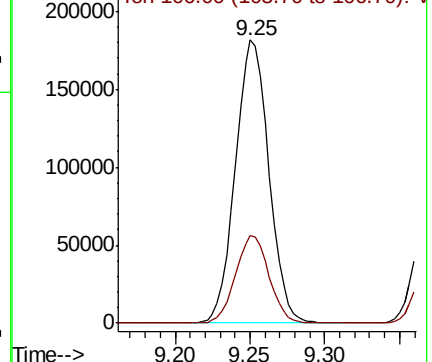
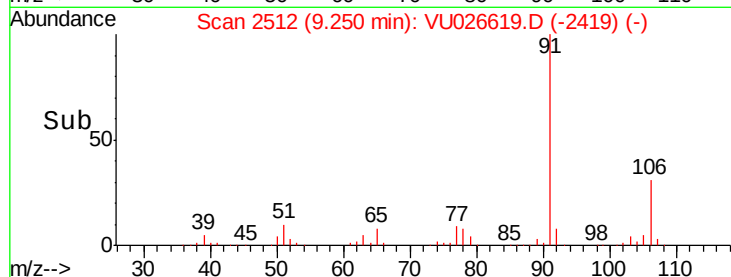
Ion Ratio Lower Upper

91 100

106 30.7 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU026619.D (-2419) (-)



#53

m,p-Xylene

Concen: 58.335 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU026619.D

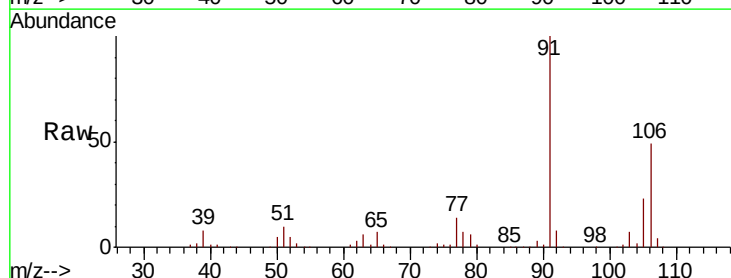
Acq: 07 Sep 2018 14:48

Tgt Ion: 106 Resp: 108400

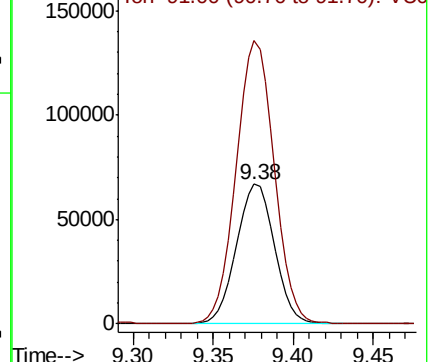
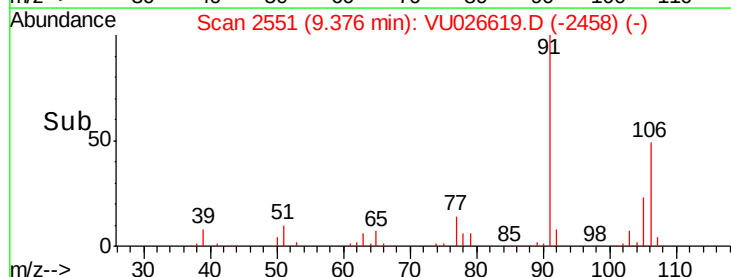
Ion Ratio Lower Upper

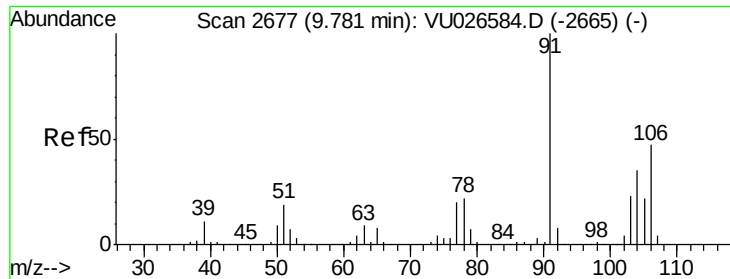
106 100

91 202.3 143.0 265.6



Abundance Ion 106.00 (105.70 to 106.70): VU026619.D (-2458) (-)





#54

o-xylene

Concen: 58.671 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

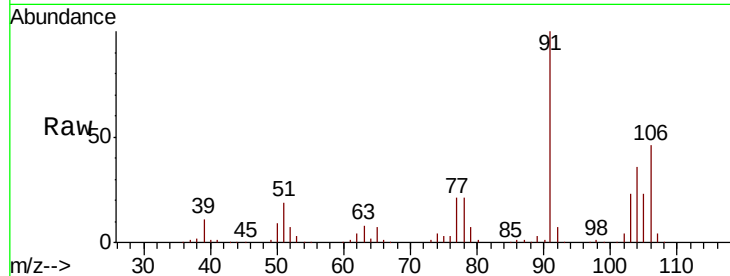
VSTD05043

Tot Ion:106 Resp: 106319

Ion Ratio Lower Upper

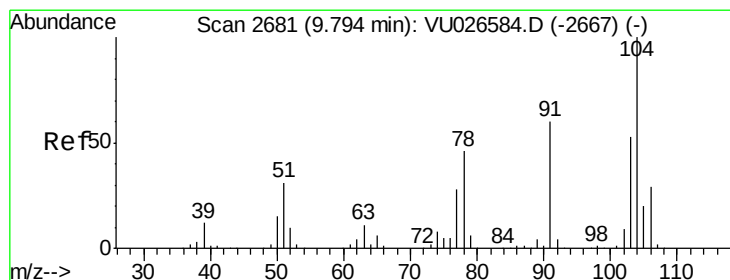
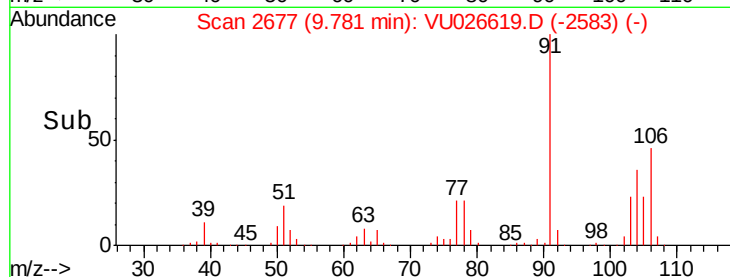
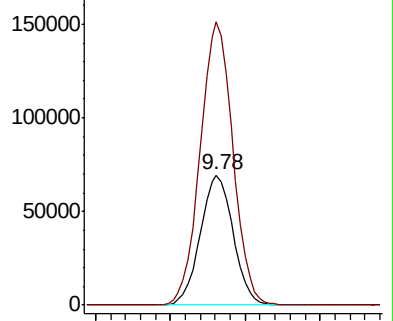
106 100

91 217.6 153.3 284.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 58.034 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU026619.D

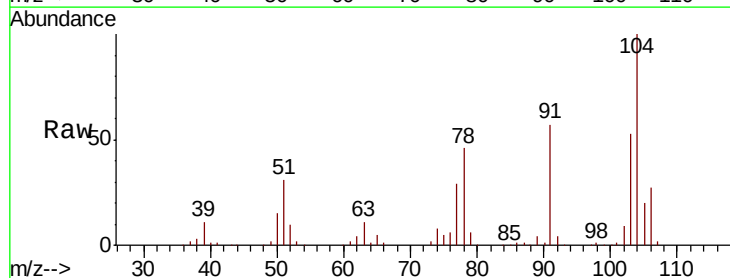
Acq: 07 Sep 2018 14:48

Tgt Ion:104 Resp: 183715

Ion Ratio Lower Upper

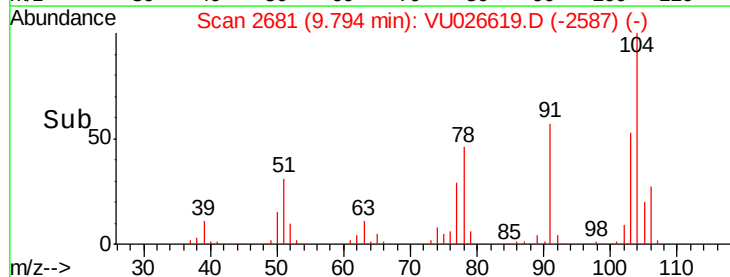
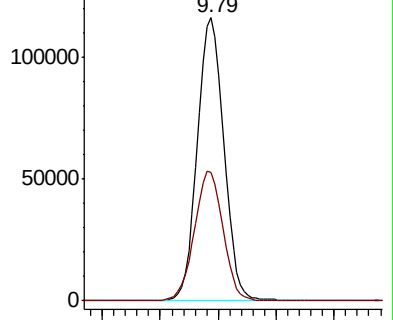
104 100

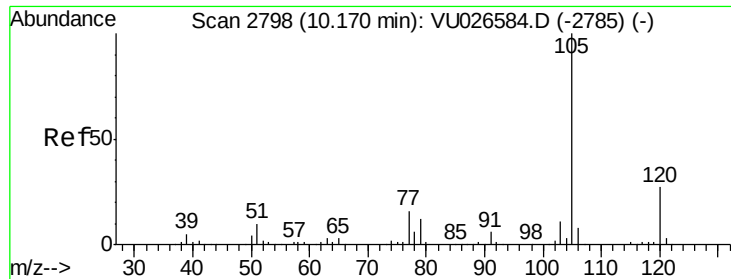
78 45.5 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 58.476 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

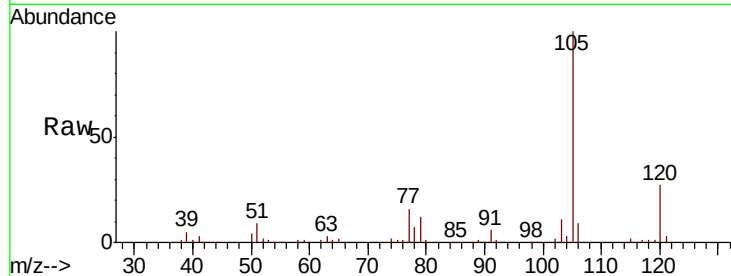
Tot Ion:105 Resp: 277382

Ion Ratio Lower Upper

105 100

120 26.5 21.5 32.3

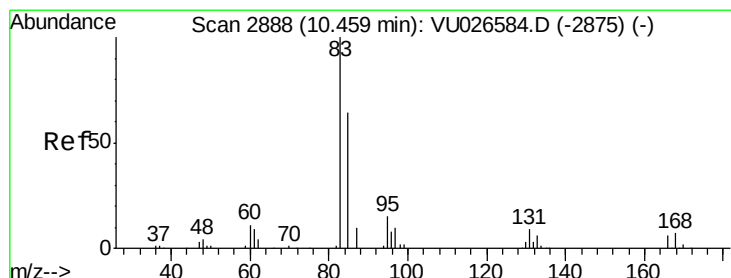
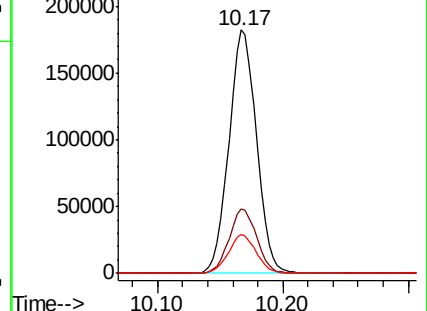
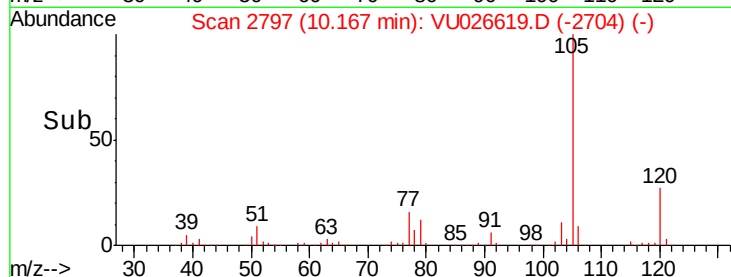
77 16.1 12.9 19.3



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: 56.043 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

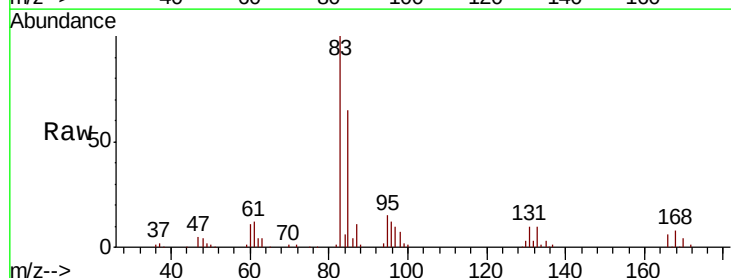
Tgt Ion: 83 Resp: 109789

Ion Ratio Lower Upper

83 100

85 64.6 44.3 82.3

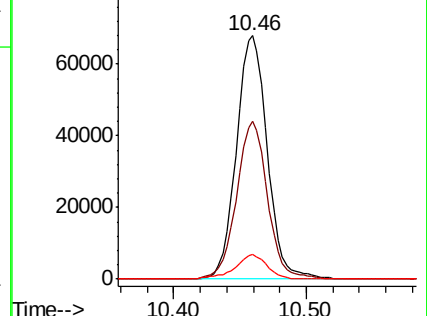
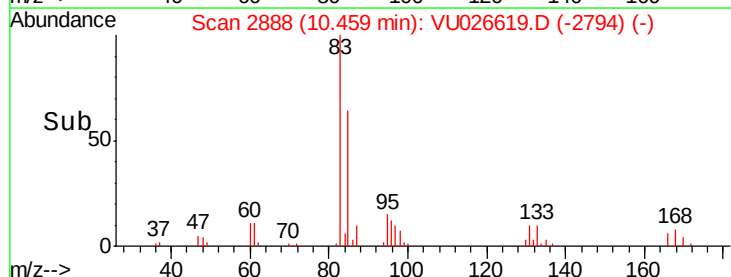
131 9.9 7.8 11.8

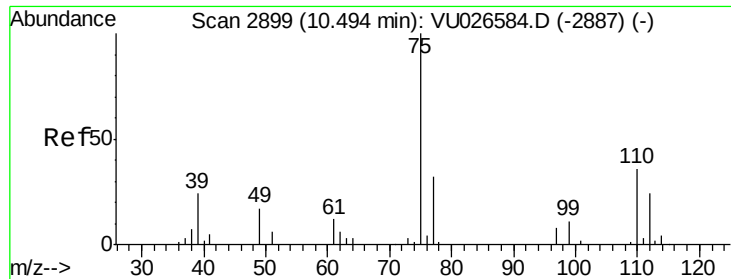


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

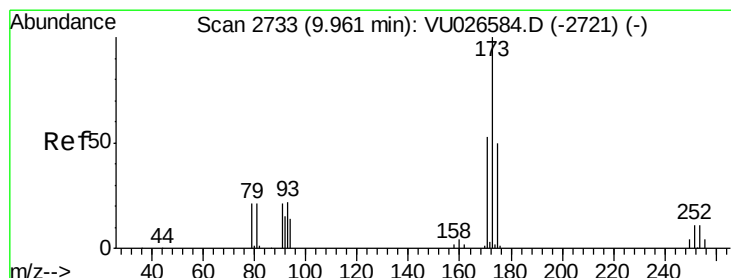
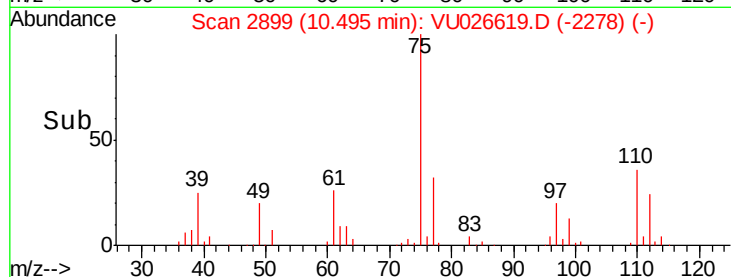
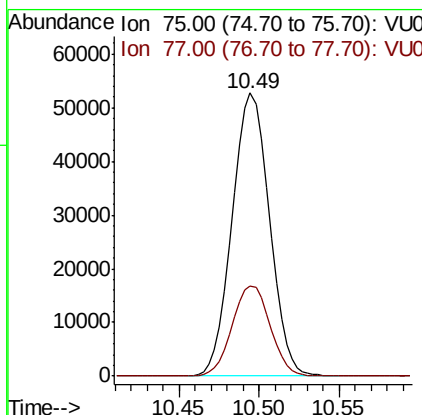
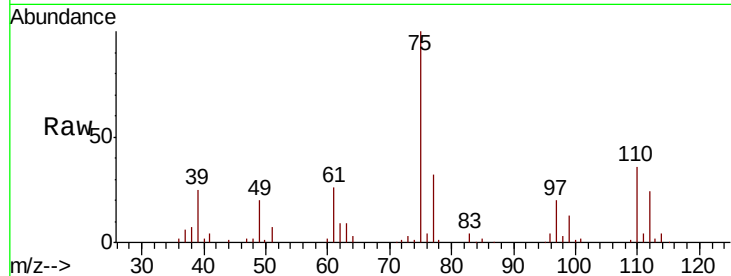




#59
 1,2,3-Trichloropropane
 Concen: 55.343 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

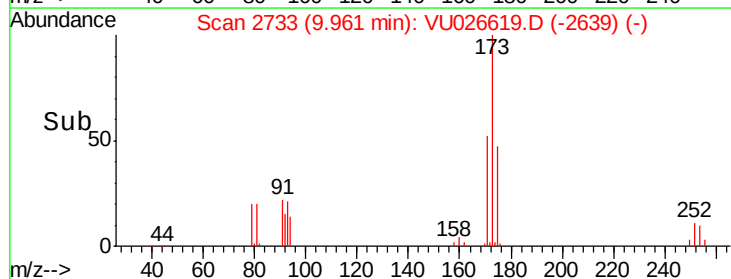
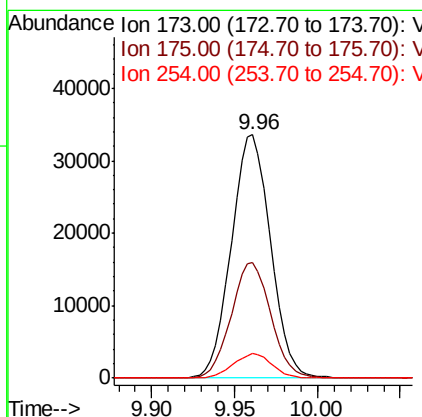
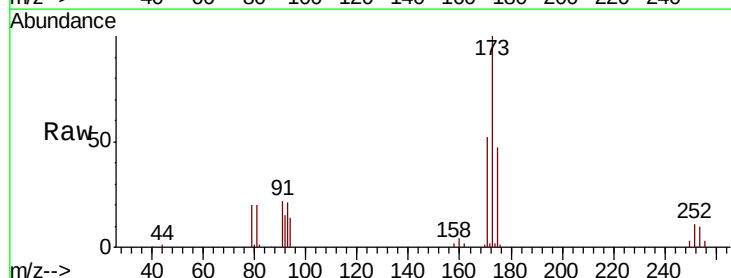
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

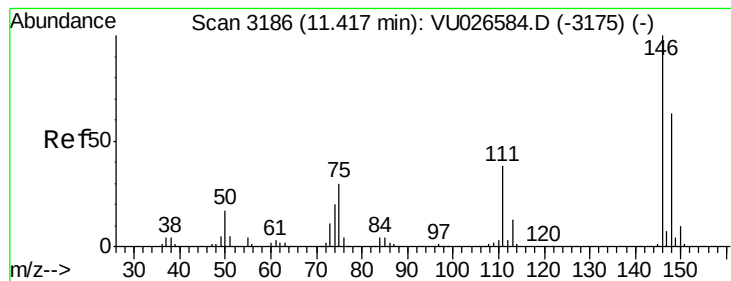
Tot Ion: 75 Resp: 83834
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.0 37.6



#61
 Bromoform
 Concen: 60.071 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Tgt Ion: 173 Resp: 55245
 Ion Ratio Lower Upper
 173 100
 175 47.7 38.5 57.7
 254 10.0 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 57.559 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

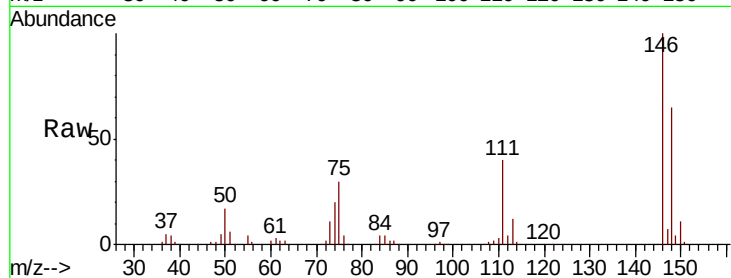
Tot Ion:146 Resp: 125503

Ion Ratio Lower Upper

146 100

111 39.5 27.5 51.1

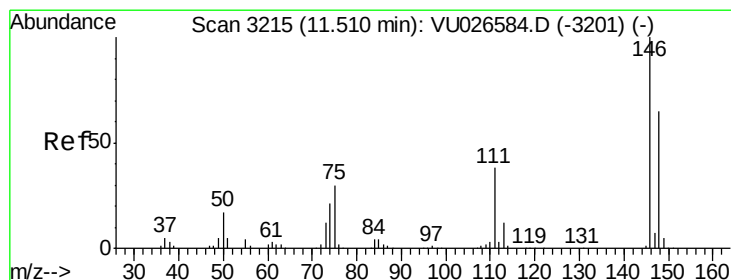
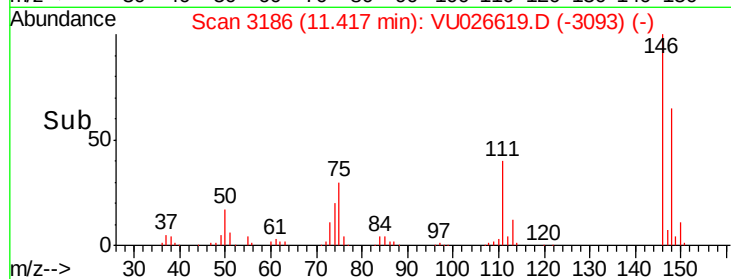
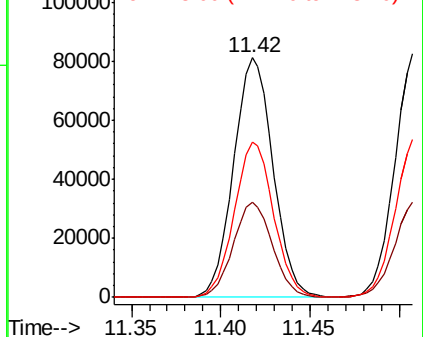
148 64.8 44.9 83.3



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: 56.087 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

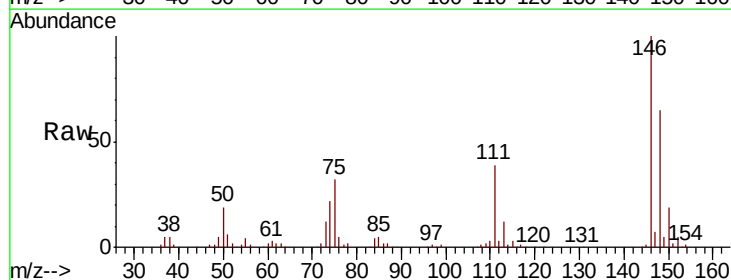
Tgt Ion:146 Resp: 129348

Ion Ratio Lower Upper

146 100

111 39.2 26.2 48.6

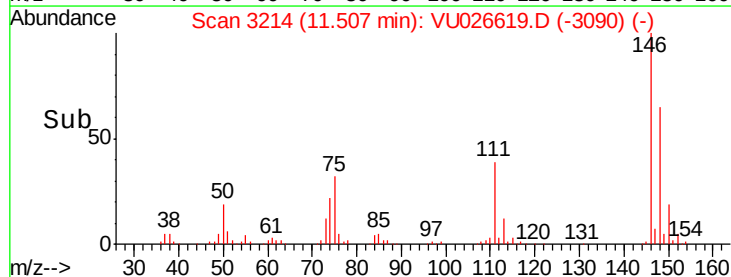
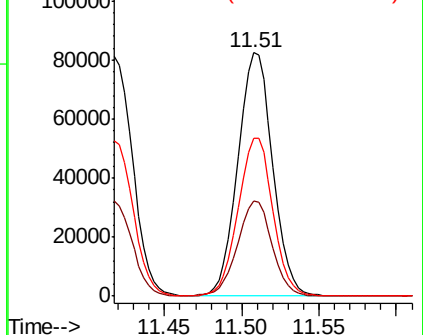
148 65.0 44.9 83.5

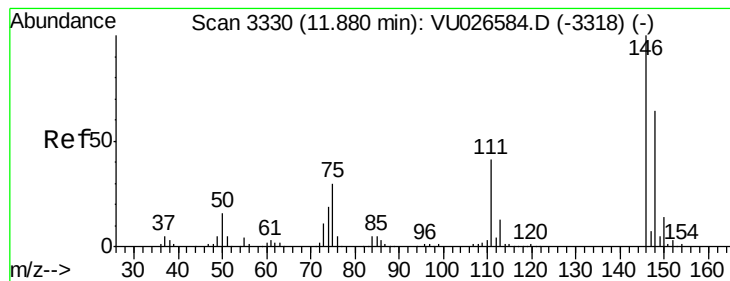


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 59.668 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

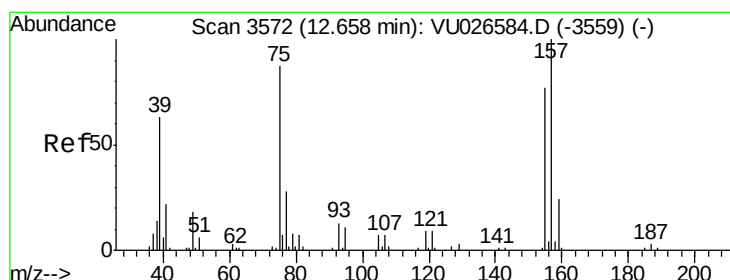
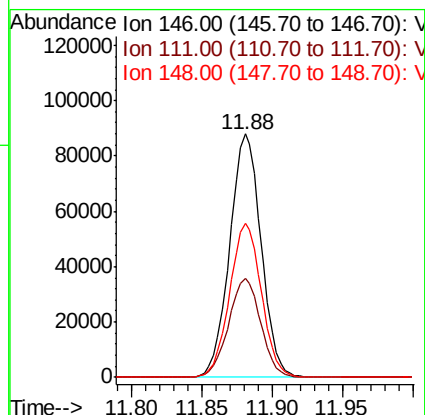
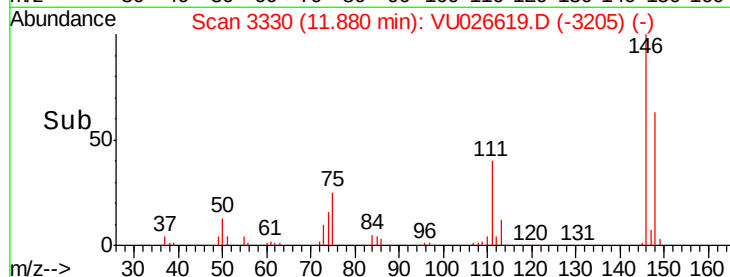
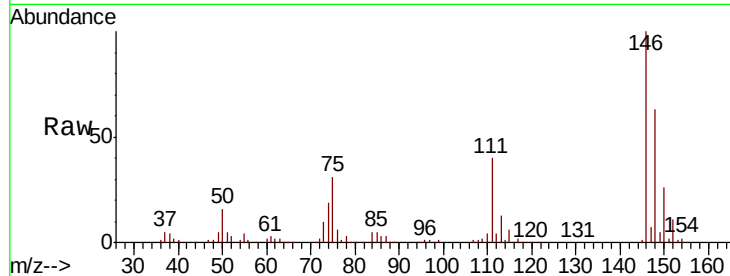
Tot Ion:146 Resp: 137224

Ion Ratio Lower Upper

146 100

111 40.4 32.0 48.0

148 63.1 50.2 75.2



#66

1,2-Dibromo-3-chloropropane

Concen: 57.180 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

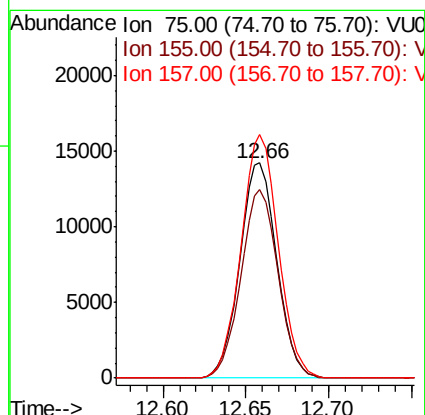
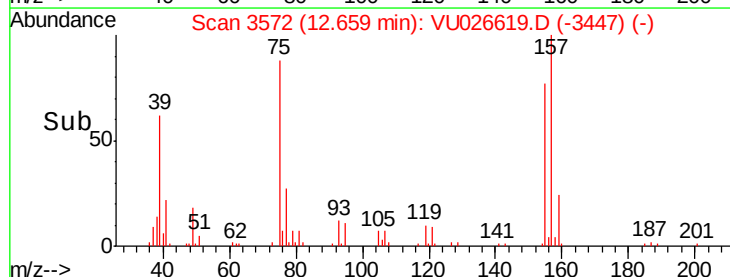
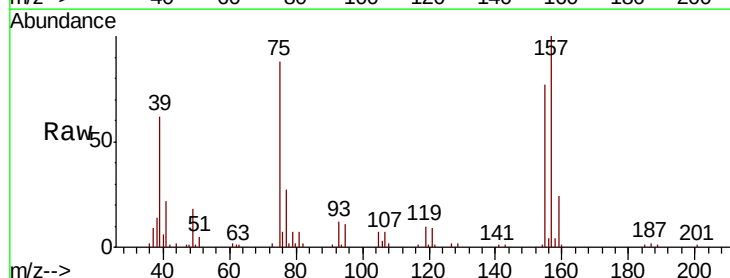
Tgt Ion: 75 Resp: 22112

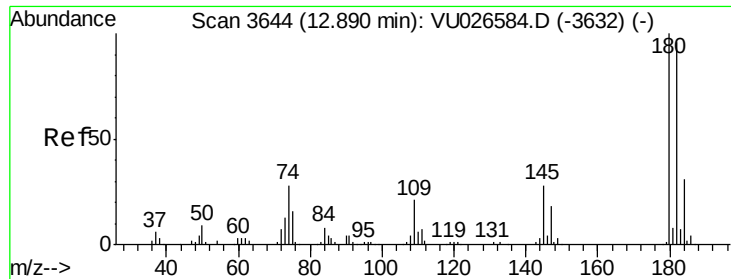
Ion Ratio Lower Upper

75 100

155 87.4 69.8 104.8

157 113.2 89.8 134.8

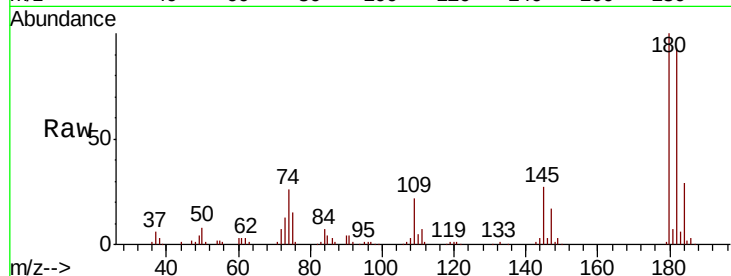




#67
 1,3,5-Trichlorobenzene
 Concen: 58.063 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.5	114.7
184	30.1	25.0	37.4
145	27.4	22.3	33.5



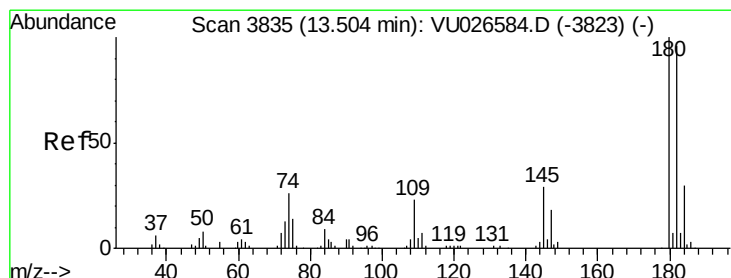
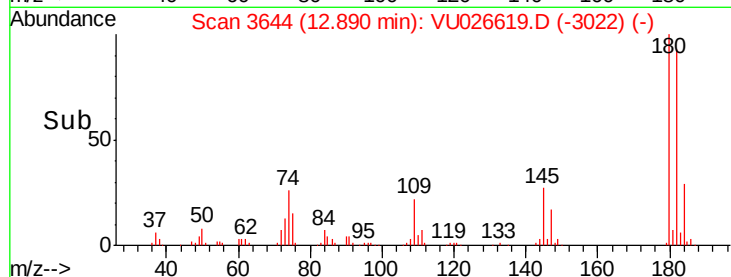
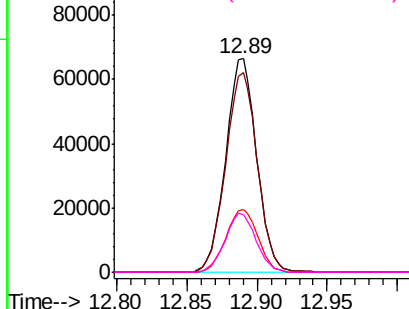
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

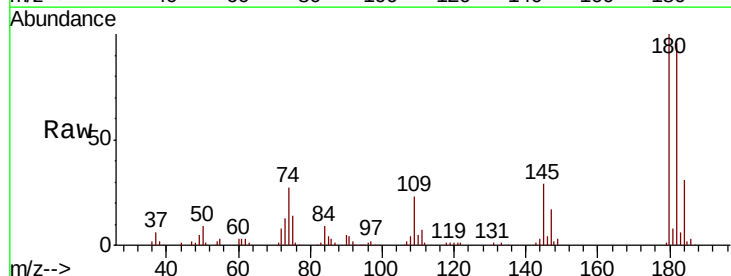
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 55.176 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU026619.D
 Acq: 07 Sep 2018 14:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.6	114.8
145	28.2	22.4	33.6

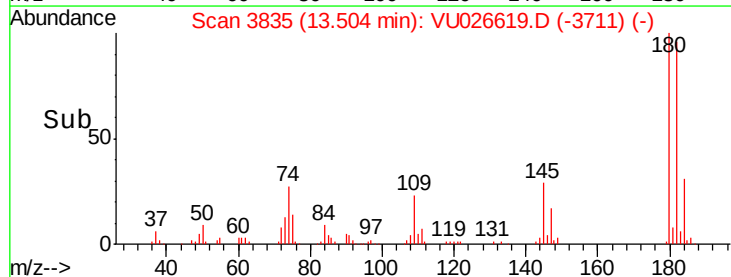
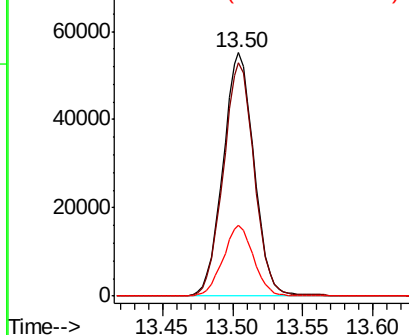


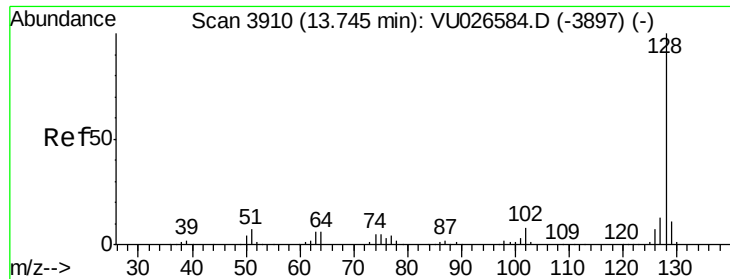
Abundance

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: 57.973 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

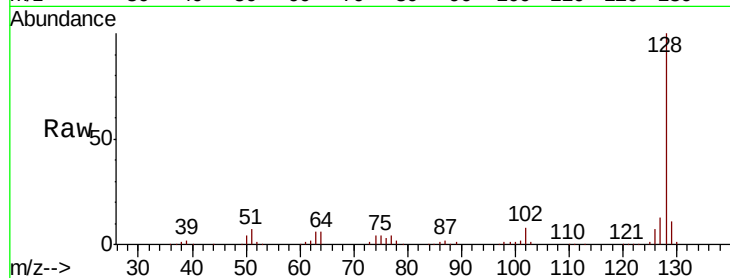
Tot Ion:128 Resp: 278194

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

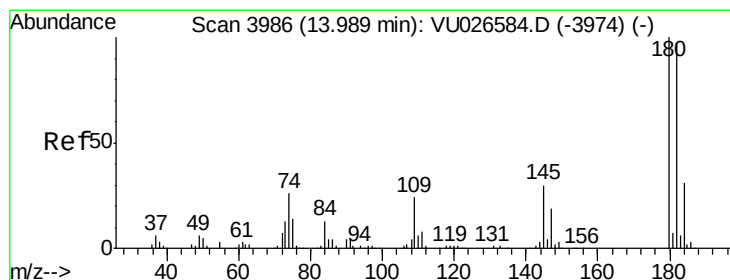
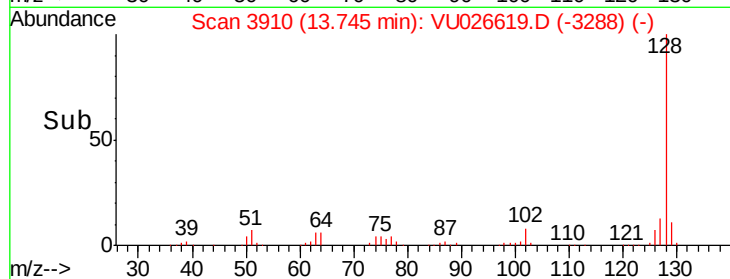
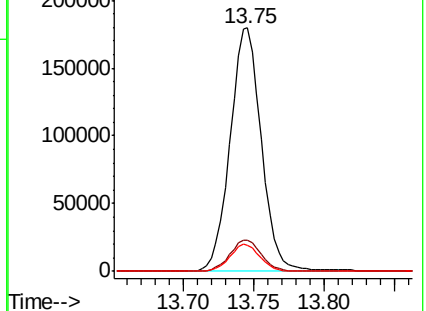
129 10.8 8.5 12.7



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: 56.925 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU026619.D

Acq: 07 Sep 2018 14:48

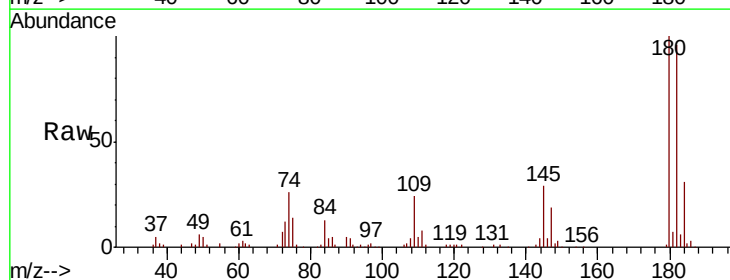
Tgt Ion:180 Resp: 96065

Ion Ratio Lower Upper

180 100

182 95.3 76.5 114.7

145 29.5 23.9 35.9



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

