

Data File : VU028545.D
Acq On : 10 Dec 2018 11:52
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Quant Time: Dec 11 02:54:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 11 02:51:29 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	160043	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	153352	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	75305	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	59383	39.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.46%
7) Chloroethane-d5	1.68	69	47823	42.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.36%
11) 1,1-Dichloroethene-d2	2.27	63	115201	43.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.42%
21) 2-Butanone-d5	4.17	46	117189	97.63	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.63%
24) Chloroform-d	4.65	84	106064	44.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.68%
26) 1,2-Dichloroethane-d4	5.31	65	69842	44.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.56%
32) Benzene-d6	5.34	84	214615	44.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.52%
36) 1,2-Dichloropropane-d6	6.33	67	78924	45.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.66%
41) Toluene-d8	7.57	98	192195	43.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.92%
43) trans-1,3-Dichloropropene-	7.85	79	35501	45.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.16%
47) 2-Hexanone-d5	8.31	63	82534	98.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.97%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	105407	47.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.24%
64) 1,2-Dichlorobenzene-d4	11.86	152	71793	46.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.98%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	67050	50.302	ug/L 98
3) Chloromethane	1.33	50	101930	49.732	ug/L 98
5) Vinyl chloride	1.40	62	87553	49.352	ug/L 100
6) Bromomethane	1.62	94	29217	54.871	ug/L 100
8) Chloroethane	1.70	64	50242	49.421	ug/L 99
9) Trichlorofluoromethane	1.89	101	94238	50.871	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	58145	52.263	ug/L 98
12) 1,1-Dichloroethene	2.28	96	54922	52.093	ug/L 82
13) Acetone	2.32	43	124936	93.098	ug/L 99
14) Carbon disulfide	2.48	76	189574	48.470	ug/L 99
15) Methyl Acetate	2.61	43	99275	53.083	ug/L 98
16) Methylene chloride	2.70	84	69716	50.578	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	61237	50.092	ug/L 97
18) Methyl tert-butyl Ether	3.00	73	214237	52.022	ug/L 99
19) 1,1-Dichloroethane	3.45	63	131489	50.739	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	70749	51.027	ug/L 100
22) 2-Butanone	4.26	43	163567	103.245	ug/L 97

Data File : VU028545.D
Acq On : 10 Dec 2018 11:52
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Quant Time: Dec 11 02:54:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 11 02:51:29 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	32038	51.748	ug/L	93
25) Chloroform	4.67	83	123654	51.815	ug/L	99
27) 1,2-Dichloroethane	5.40	62	100740	51.071	ug/L	99
29) Cyclohexane	5.00	56	130592	51.456	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	98349	51.659	ug/L	99
31) Carbon tetrachloride	5.13	117	79801	51.811	ug/L	99
33) Benzene	5.39	78	284523	52.014	ug/L	100
34) Trichloroethene	6.19	95	67637	50.907	ug/L	97
35) Methylcyclohexane	6.41	83	118052	52.702	ug/L	100
37) 1,2-Dichloropropane	6.43	63	84744	51.824	ug/L	99
38) Bromodichloromethane	6.76	83	92594	51.490	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	120838	52.068	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	271407	108.998	ug/L	99
42) Toluene	7.64	91	286873	51.624	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	110767	51.746	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	66942	52.242	ug/L	99
46) Tetrachloroethene	8.22	164	47931	50.985	ug/L	99
48) 2-Hexanone	8.36	43	221471	105.114	ug/L	99
49) Dibromochloromethane	8.48	129	68161	52.584	ug/L	98
50) 1,2-Dibromoethane	8.58	107	71801	53.429	ug/L	100
51) Chlorobenzene	9.12	112	176264	52.653	ug/L	98
52) Ethylbenzene	9.25	91	318007	51.692	ug/L	100
53) m,p-Xylene	9.37	106	116722	52.411	ug/L	98
54) o-xylene	9.78	106	114214	52.228	ug/L	97
55) Styrene	9.79	104	196581	52.943	ug/L	100
56) Isopropylbenzene	10.16	105	298250	52.321	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	124442	52.874	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	98773	53.459	ug/L	100
61) Bromoform	9.96	173	50738	52.652	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	131136	51.023	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	132930	51.110	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	132110	51.446	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	26252	51.922	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	98062	52.539	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	90172	51.506	ug/L	99
69) Naphthalene	13.74	128	309363	53.240	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	93485	53.458	ug/L	99

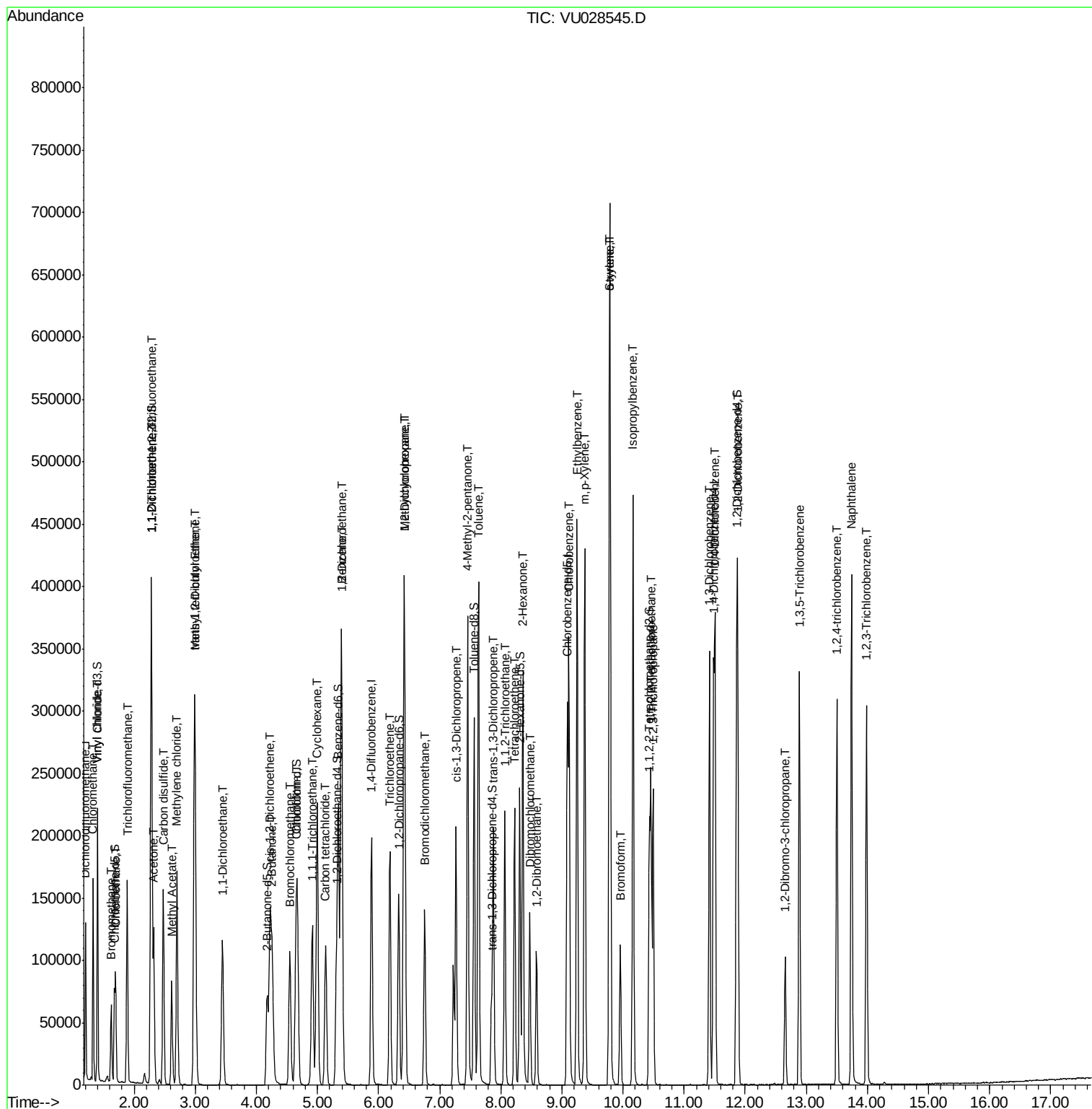
(#) = qualifier out of range (m) = manual integration (+) = signals summed

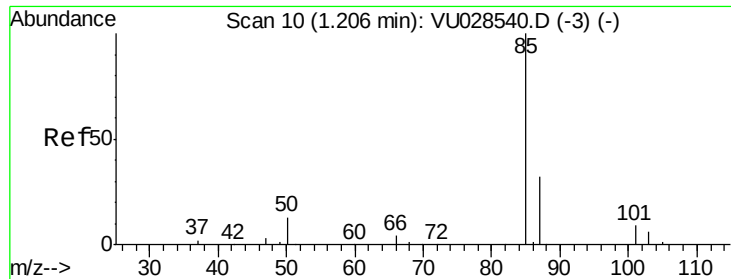
Data File : VU028545.D

```
Acq On       : 10 Dec 2018   11:52
Operator     : MD/SY
Sample       : VSTDCCC050EC
Misc         : 5.0mL/MSVOA_U/WATER
ALS Vial     : 7      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Quant Time: Dec 11 02:54:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM120718WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 11 02:51:29 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 50.302 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

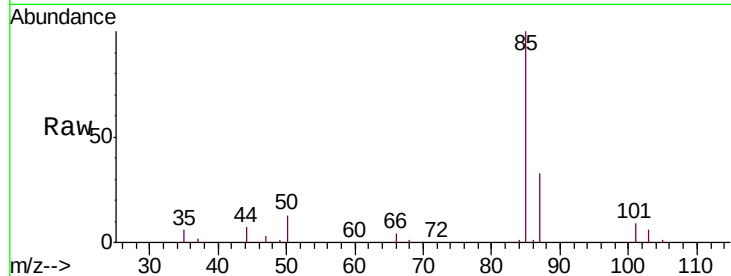
VSTD05042

Tgt Ion: 85 Resp: 67050

Ion Ratio Lower Upper

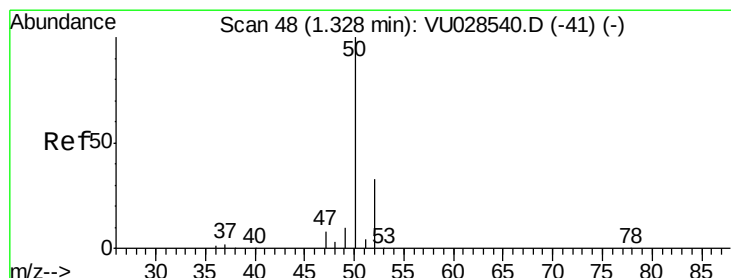
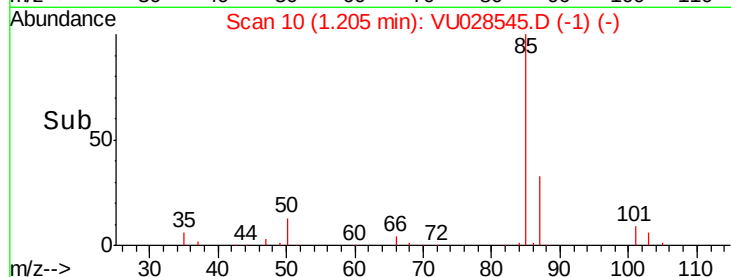
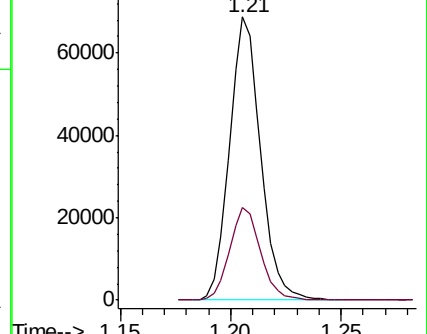
85 100

87 32.3 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 49.732 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028545.D

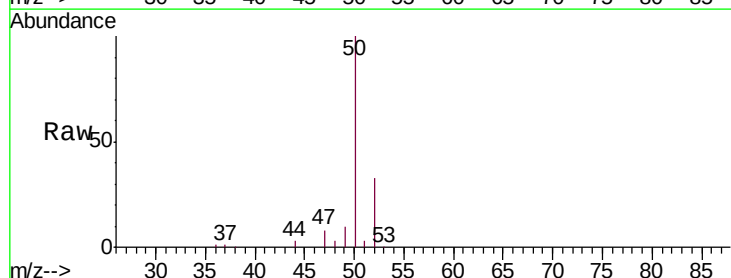
Acq: 10 Dec 2018 11:52

Tgt Ion: 50 Resp: 101930

Ion Ratio Lower Upper

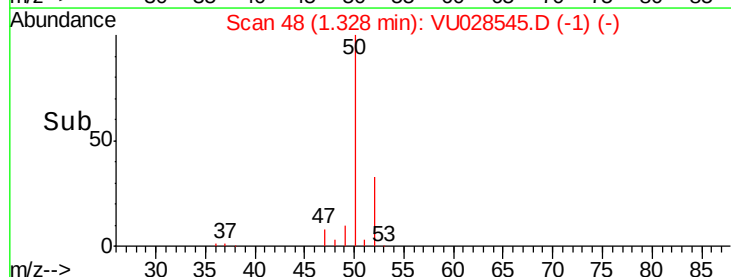
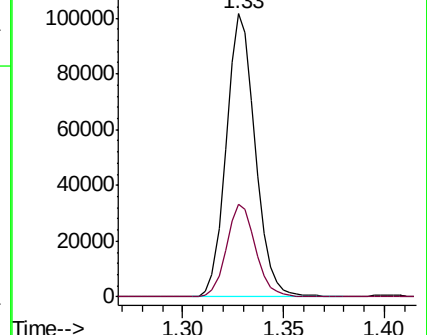
50 100

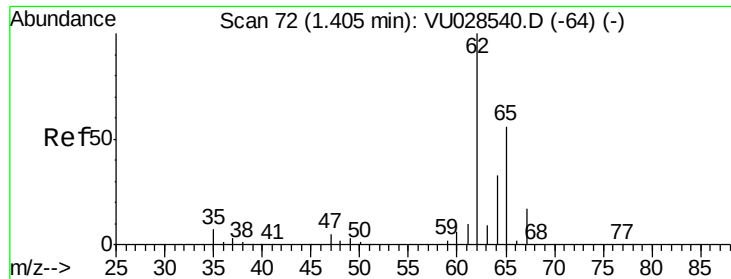
52 32.8 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 49.352 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

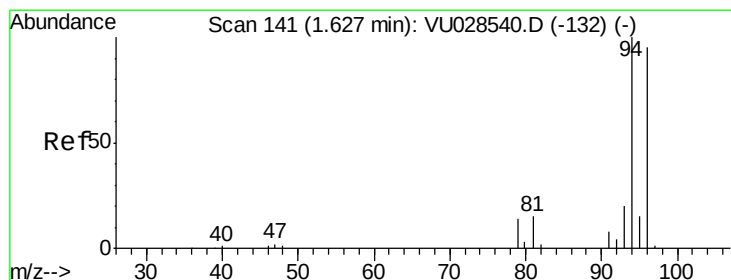
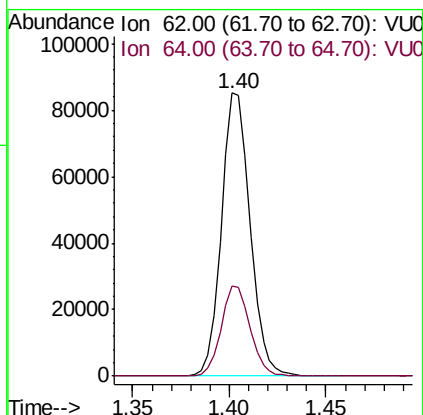
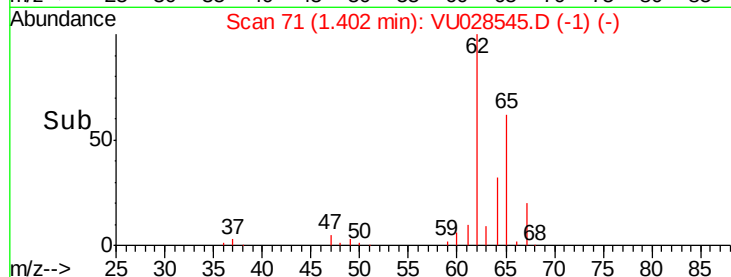
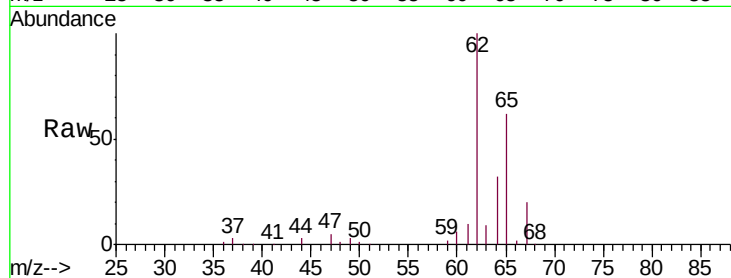
VSTD05042

Tgt Ion: 62 Resp: 87553

Ion Ratio Lower Upper

62 100

64 31.7 22.3 41.5



#6

Bromomethane

Concen: 54.871 ug/L

RT: 1.62 min Scan# 140

Delta R.T. -0.00 min

Lab File: VU028545.D

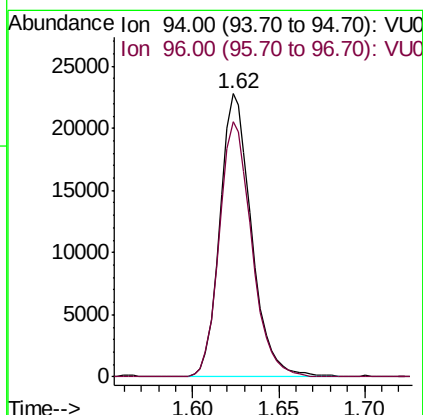
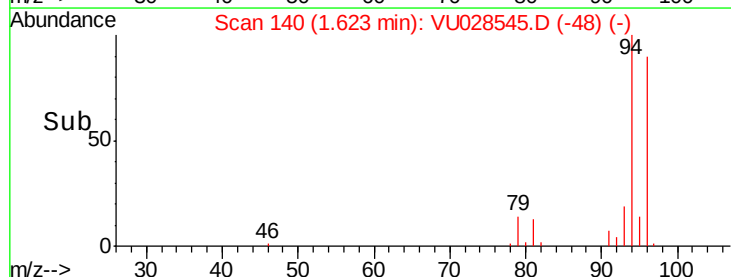
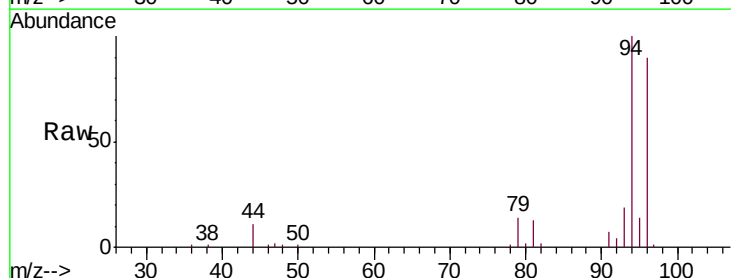
Acq: 10 Dec 2018 11:52

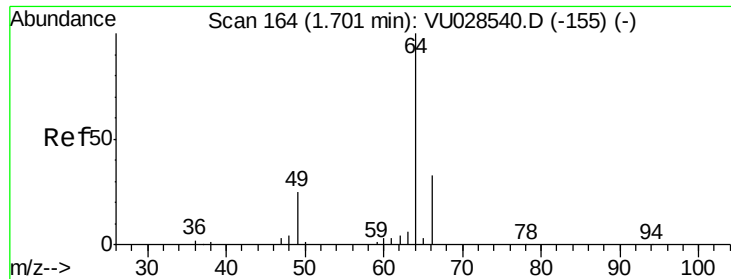
Tgt Ion: 94 Resp: 29217

Ion Ratio Lower Upper

94 100

96 90.0 62.9 116.9





#8

Chloroethane

Concen: 49.421 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

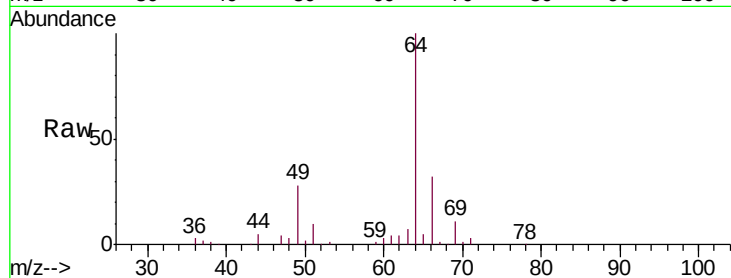
VSTD05042

Tgt Ion: 64 Resp: 50242

Ion Ratio Lower Upper

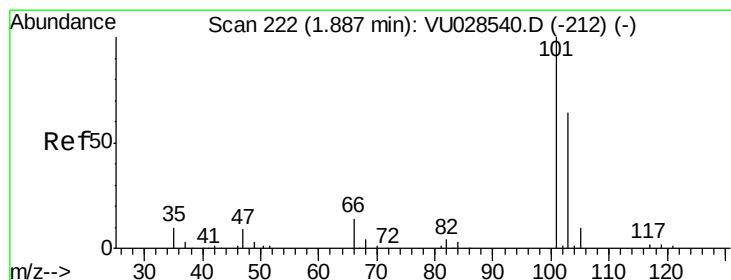
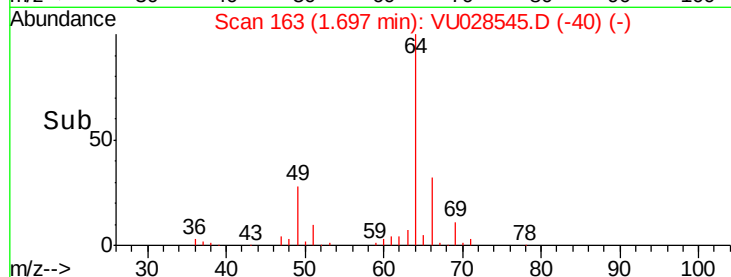
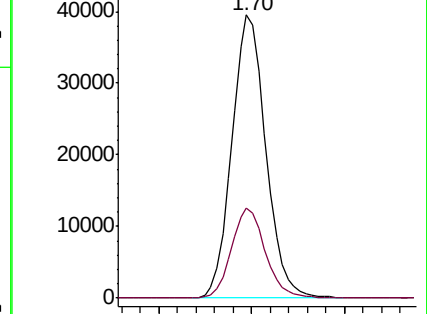
64 100

66 31.6 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU028540.D (-155) (-)

Ion 66.00 (65.70 to 66.70): VU028540.D (-155) (-)



#9

Trichlorofluoromethane

Concen: 50.871 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU028545.D

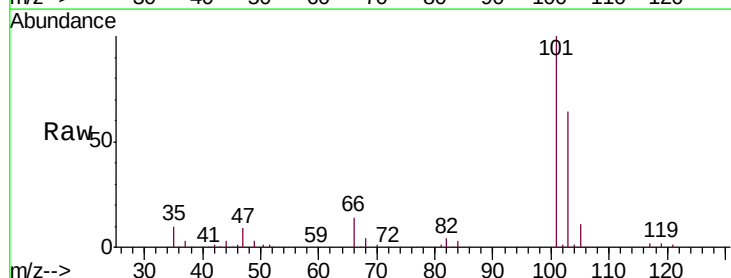
Acq: 10 Dec 2018 11:52

Tgt Ion: 101 Resp: 94238

Ion Ratio Lower Upper

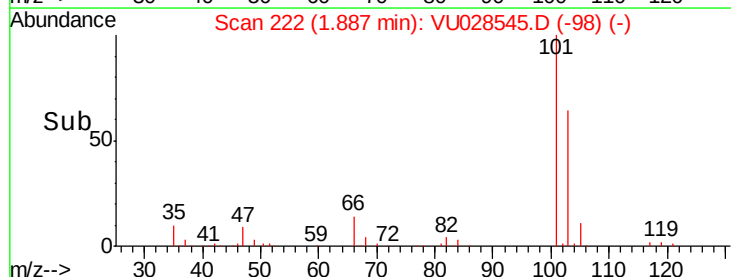
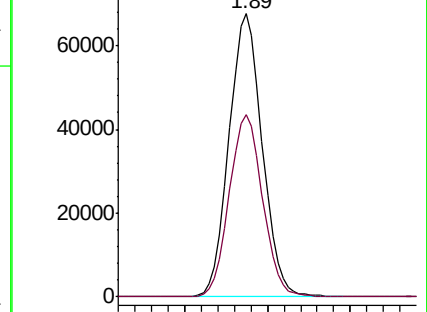
101 100

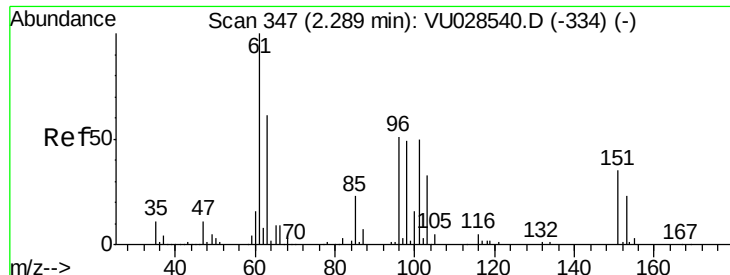
103 64.5 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU028540.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU028540.D (-212) (-)





#10

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

Concen: 52.263 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

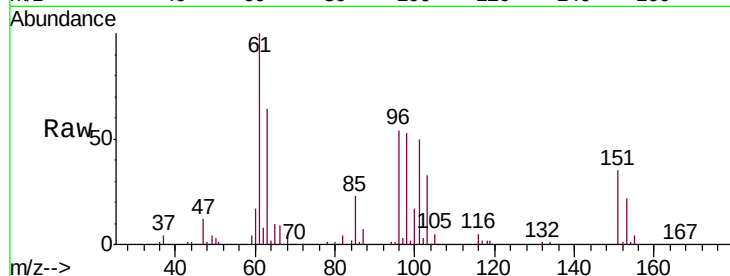
Tgt Ion:101 Resp: 58145

Ion Ratio Lower Upper

101 100

85 44.7 36.8 55.2

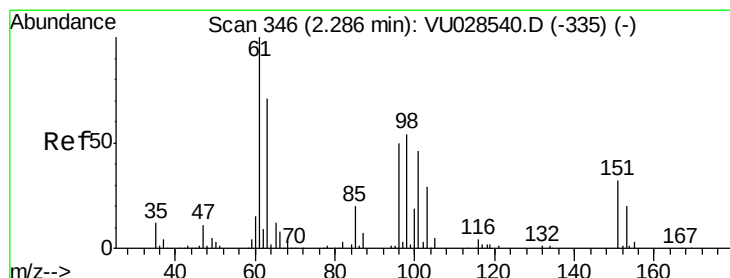
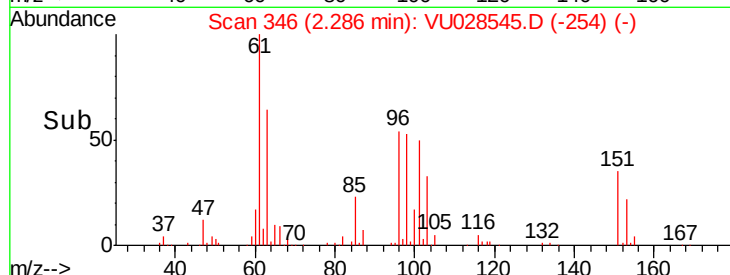
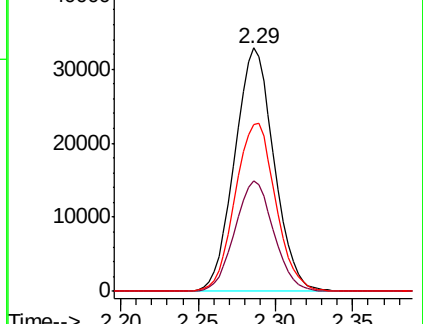
151 70.9 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): VU028540.D (-334) (-)

Ion 85.00 (84.70 to 85.70): VU028540.D (-334) (-)

Ion 151.00 (150.70 to 151.70): VU028540.D (-334) (-)



#12

1,1-Dichloroethene

Concen: 52.093 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

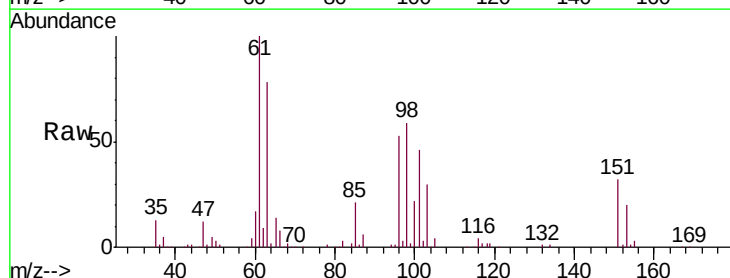
Tgt Ion: 96 Resp: 54922

Ion Ratio Lower Upper

96 100

61 189.2 143.2 266.0

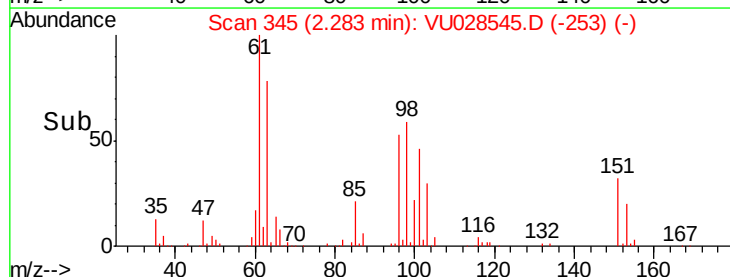
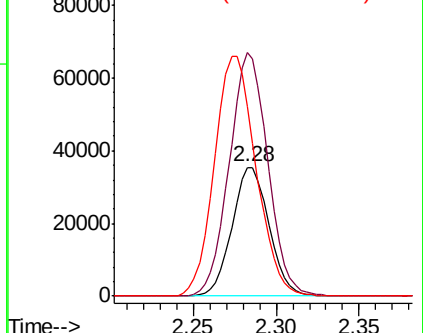
63 147.7 130.1 241.7

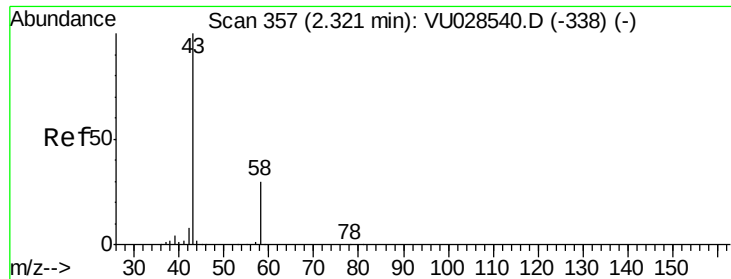


Abundance Ion 96.00 (95.70 to 96.70): VU028540.D (-335) (-)

Ion 61.00 (60.70 to 61.70): VU028540.D (-335) (-)

Ion 63.00 (62.70 to 63.70): VU028540.D (-335) (-)





#13

Acetone

Concen: 93.098 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

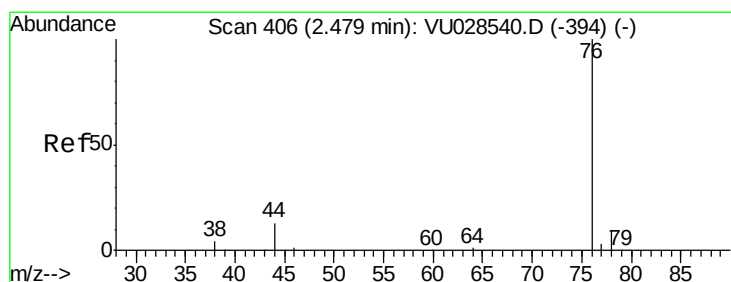
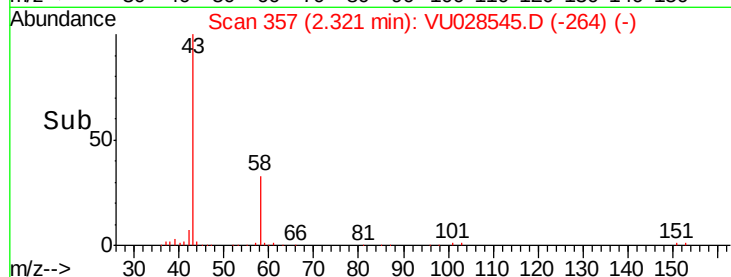
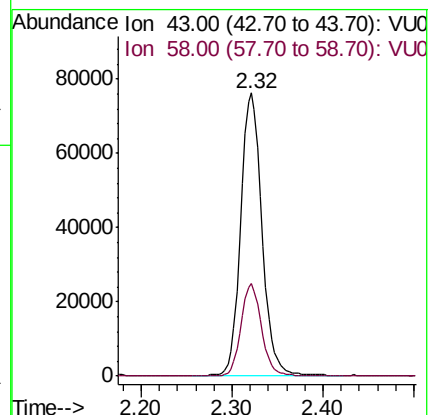
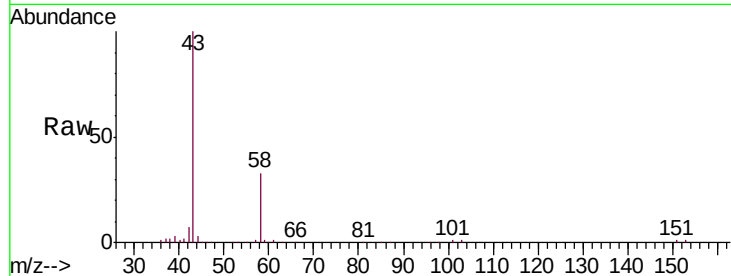
VSTD05042

Tgt Ion: 43 Resp: 124936

Ion Ratio Lower Upper

43 100

58 31.5 0.0 62.0



#14

Carbon disulfide

Concen: 48.470 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028545.D

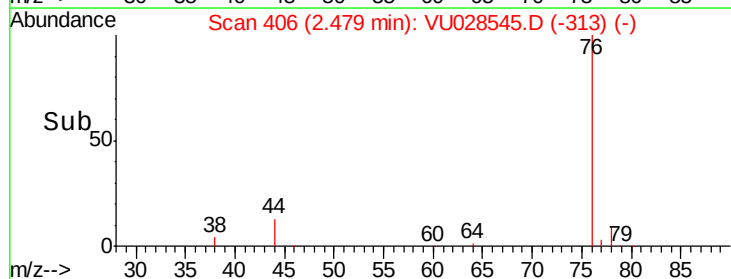
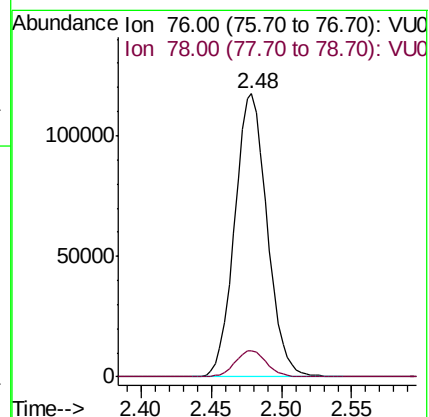
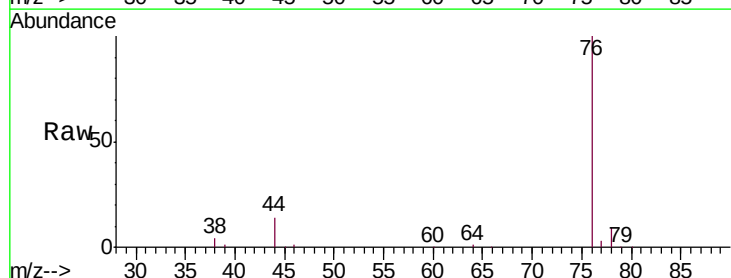
Acq: 10 Dec 2018 11:52

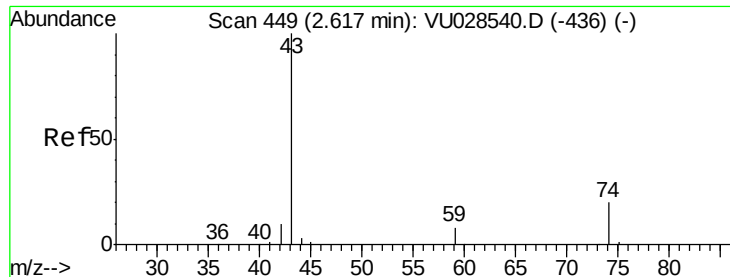
Tgt Ion: 76 Resp: 189574

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9





#15

Methyl Acetate

Concen: 53.083 ug/L

RT: 2.61 min Scan# 448

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

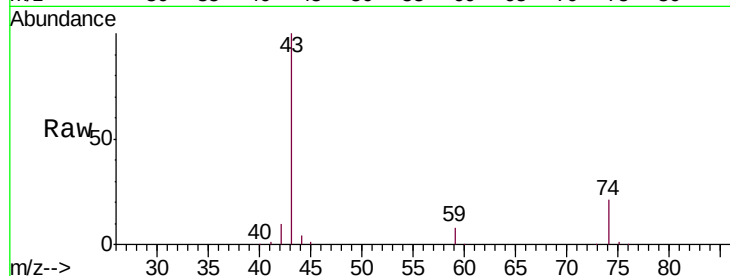
VSTD05042

Tgt Ion: 43 Resp: 99275

Ion Ratio Lower Upper

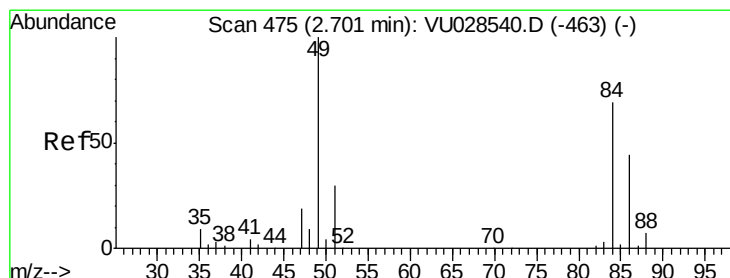
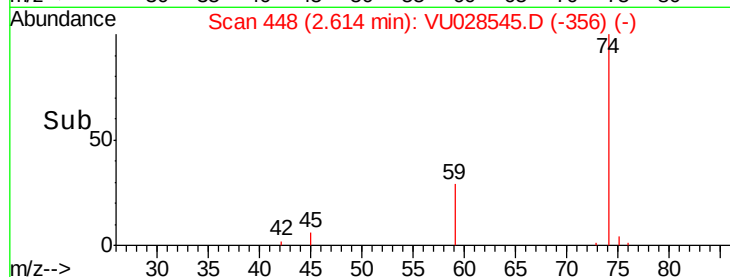
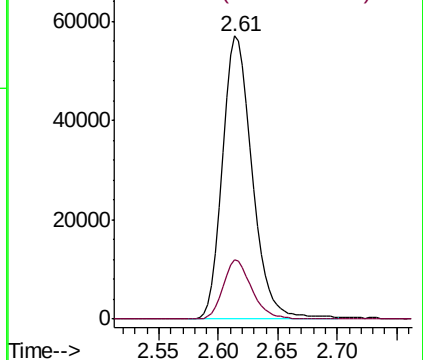
43 100

74 20.0 15.4 23.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 50.578 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

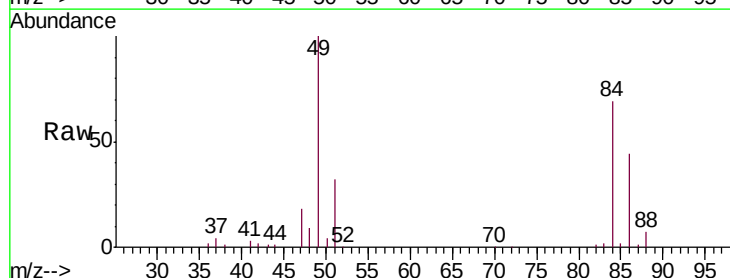
Tgt Ion: 84 Resp: 69716

Ion Ratio Lower Upper

84 100

86 63.0 44.3 82.3

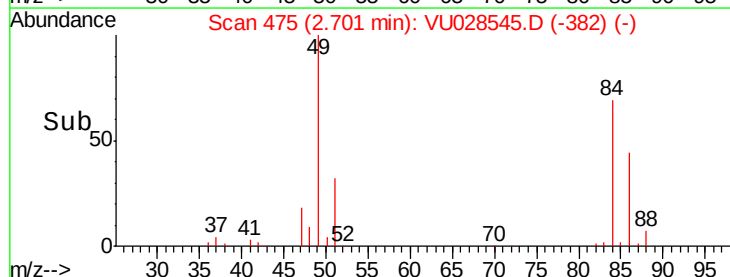
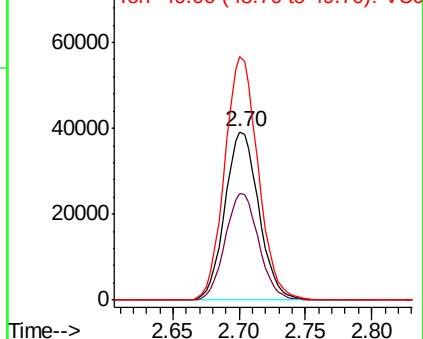
49 144.4 100.0 185.6

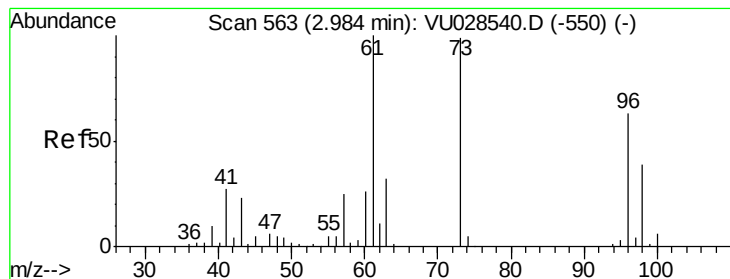


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 50.092 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

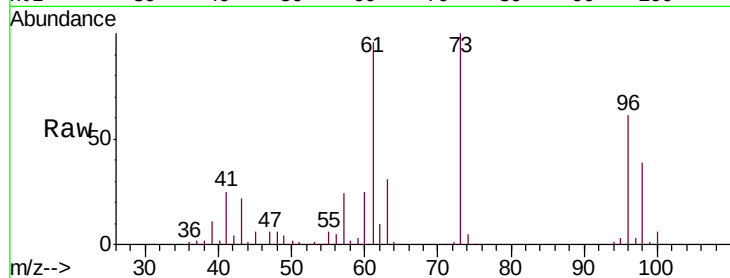
Tgt Ion: 96 Resp: 61237

Ion Ratio Lower Upper

96 100

61 156.7 112.8 209.4

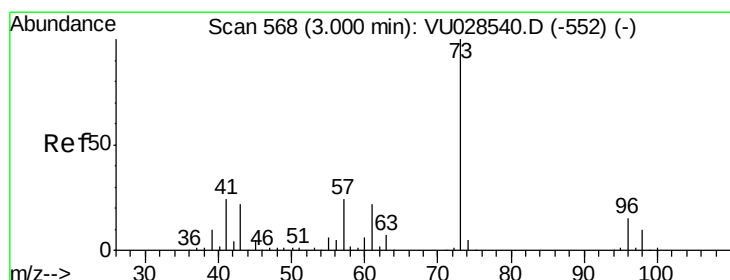
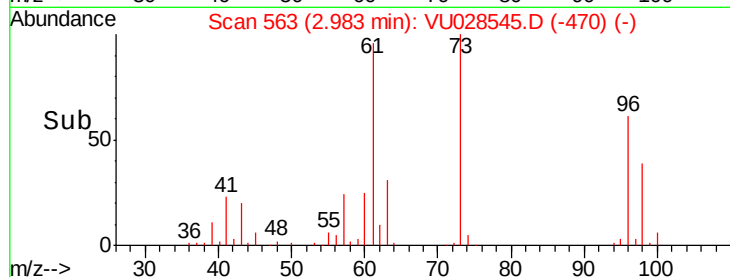
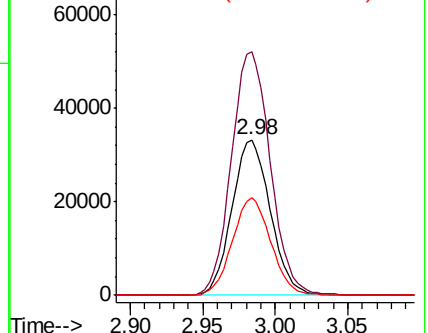
98 62.8 43.8 81.3



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: 52.022 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

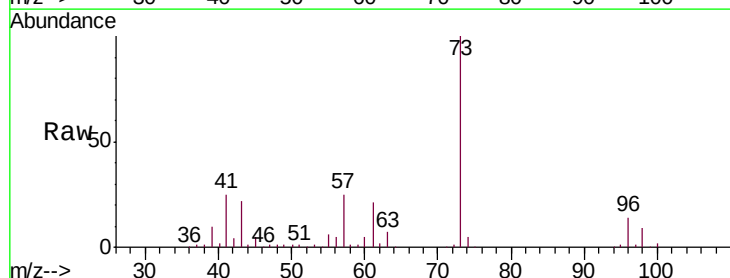
Tgt Ion: 73 Resp: 214237

Ion Ratio Lower Upper

73 100

43 22.0 18.1 27.1

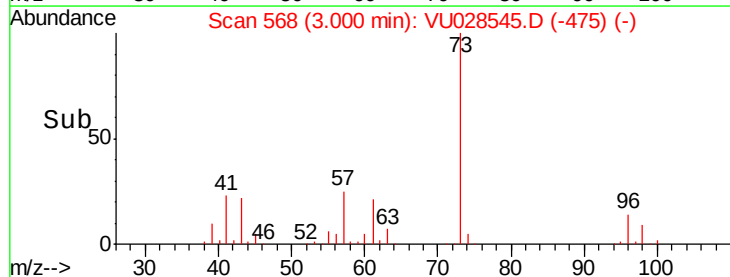
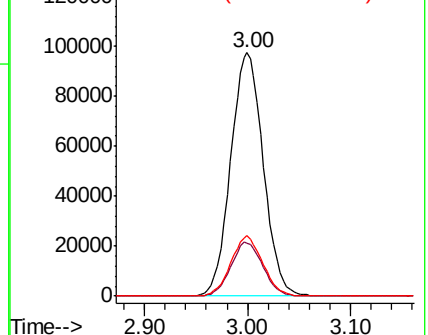
57 24.1 19.7 29.5

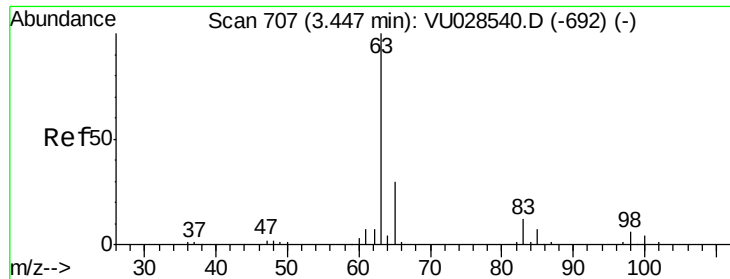


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

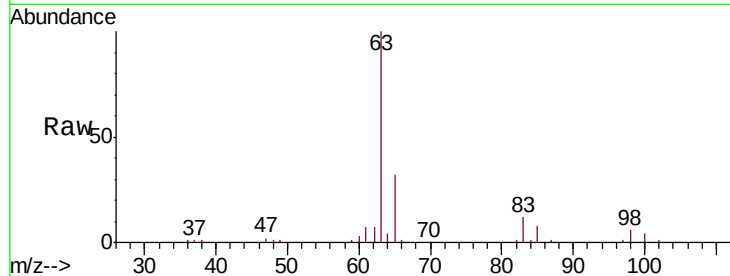




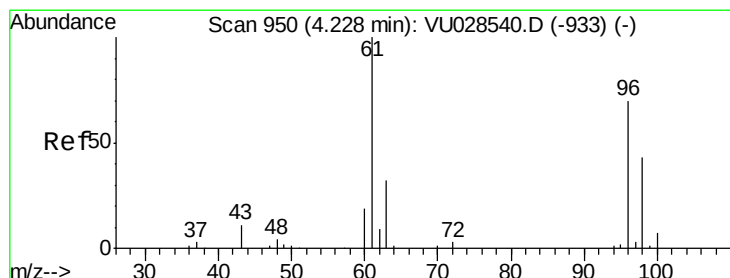
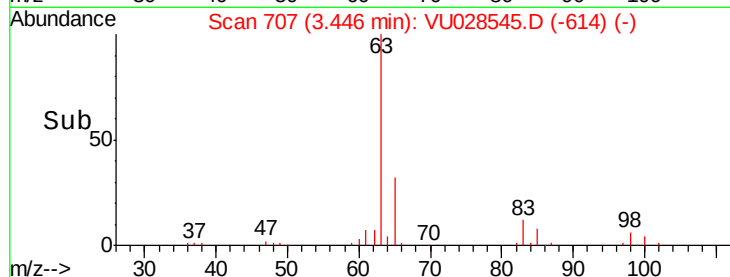
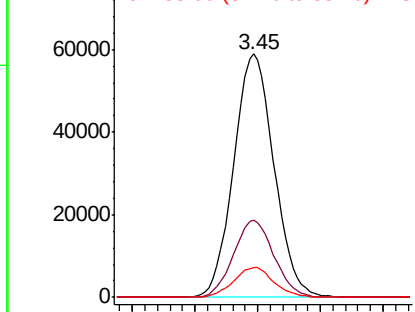
#19
 1,1-Dichloroethane
 Concen: 50.739 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion: 63 Resp: 131489
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.8 40.4
 83 12.4 8.5 15.7

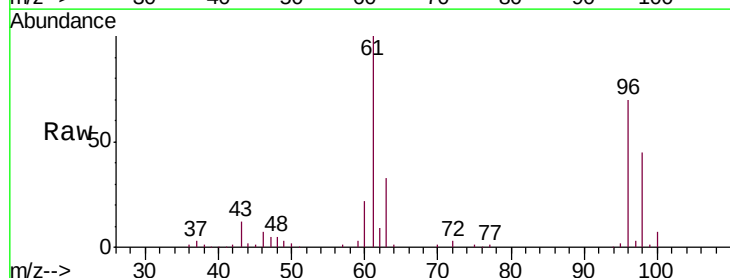


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

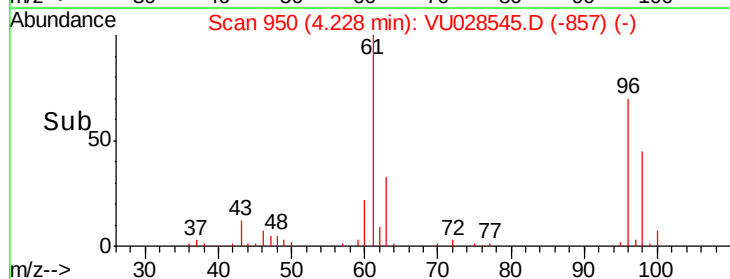
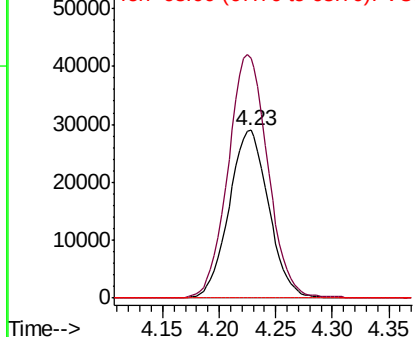


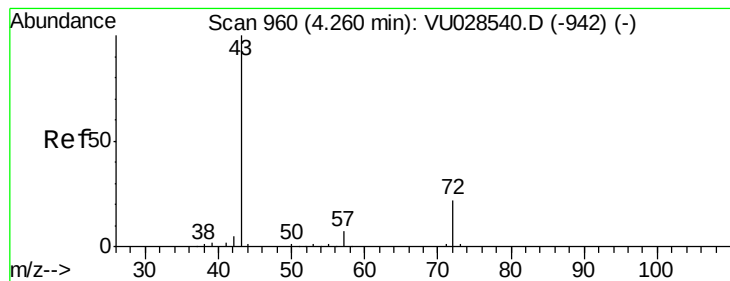
#20
 cis-1,2-Dichloroethene
 Concen: 51.027 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Tgt Ion: 96 Resp: 70749
 Ion Ratio Lower Upper
 96 100
 61 143.2 100.1 185.9
 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: 103.245 ug/L

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

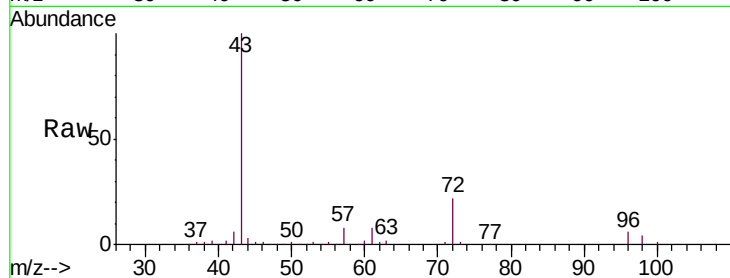
VSTD05042

Tgt Ion: 43 Resp: 163567

Ion Ratio Lower Upper

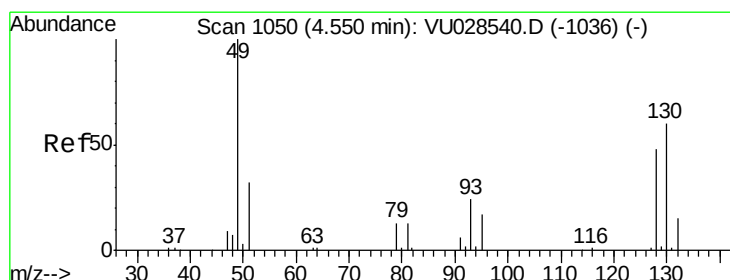
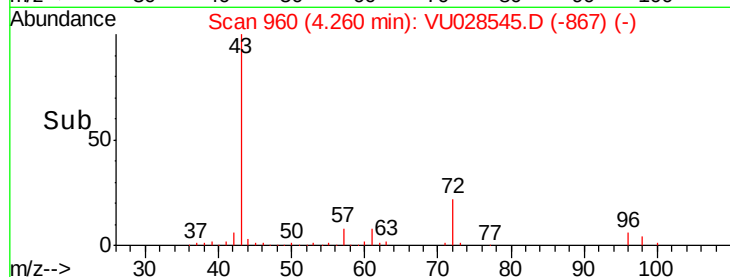
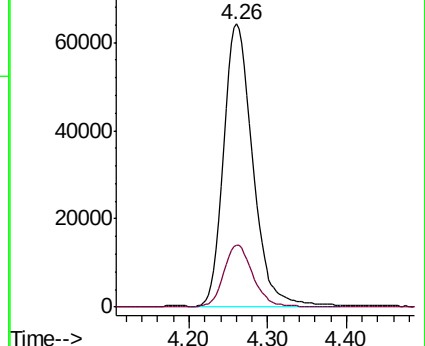
43 100

72 22.3 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU028540.D (-942) (-)

Ion 72.00 (71.70 to 72.70): VU028540.D (-942) (-)



#23

Bromochloromethane

Concen: 51.748 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Tgt Ion:128 Resp: 32038

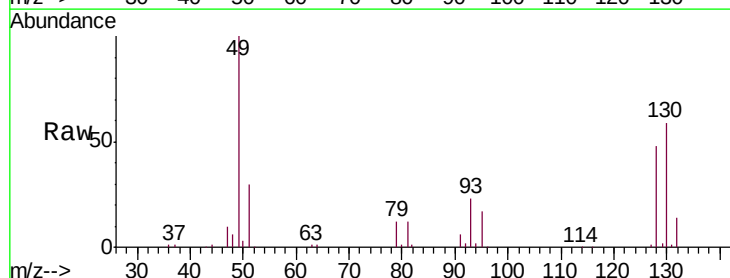
Ion Ratio Lower Upper

128 100

49 207.2 150.8 280.1

130 122.1 90.9 168.7

51 61.6 56.7 85.1

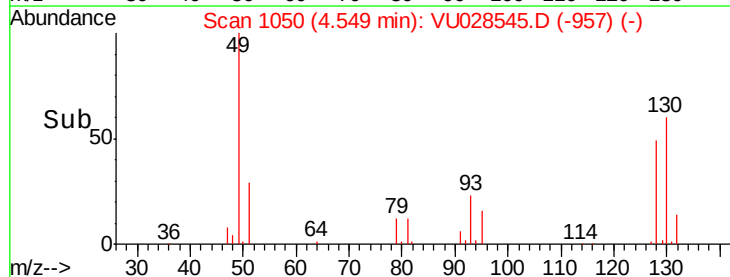
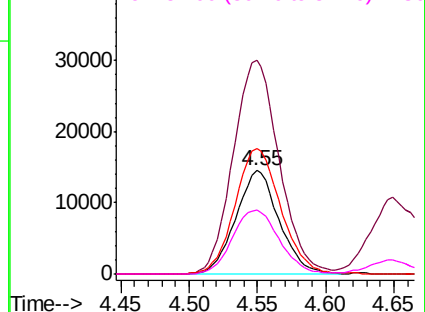


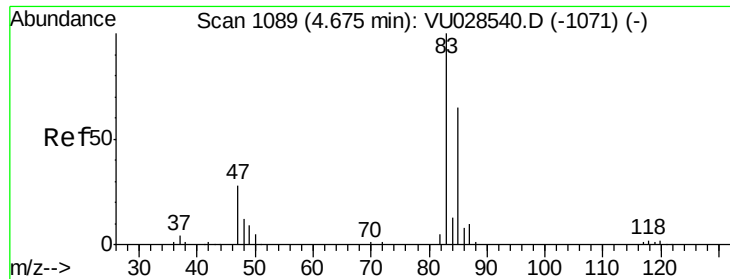
Abundance Ion 128.00 (127.70 to 128.70): VU028540.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU028540.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU028540.D (-1036) (-)

Ion 51.00 (50.70 to 51.70): VU028540.D (-1036) (-)

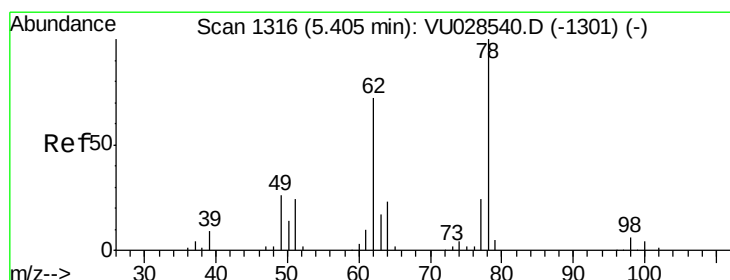
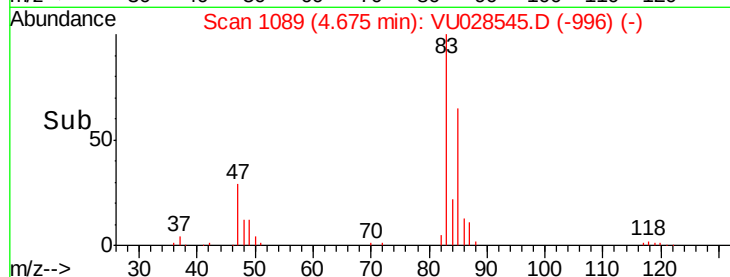
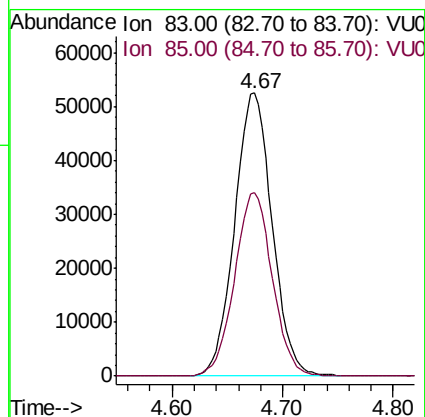
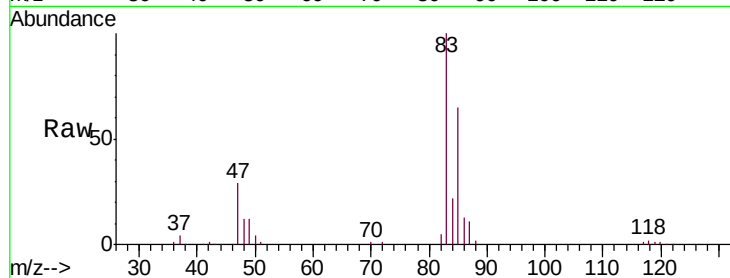




#25
Chloroform
Concen: 51.815 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

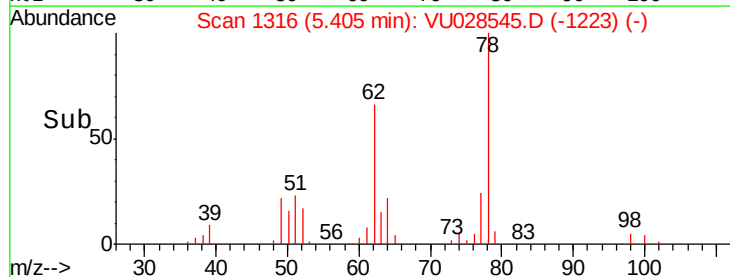
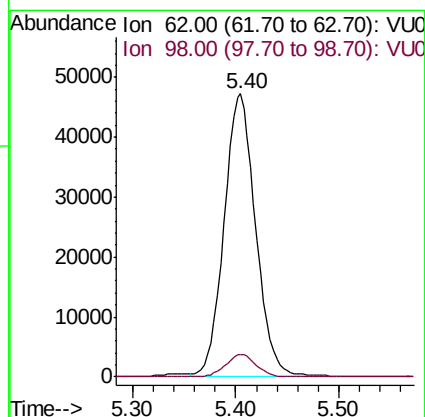
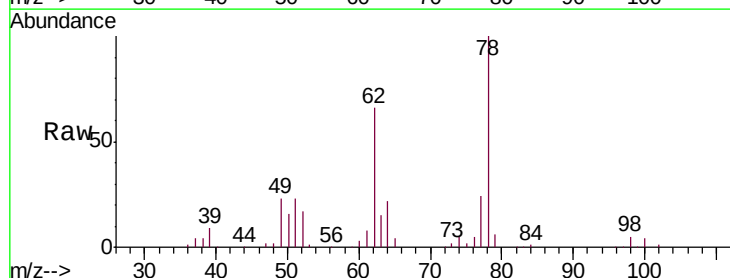
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

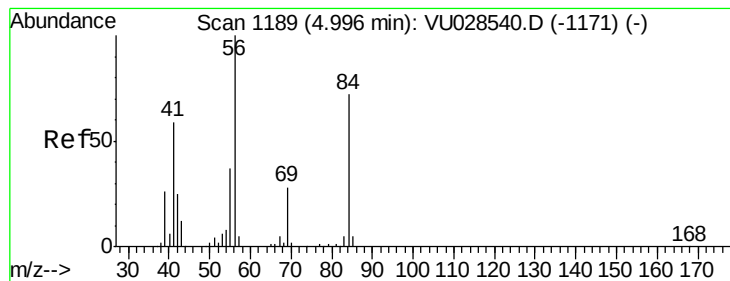
Tgt Ion: 83 Resp: 123654
Ion Ratio Lower Upper
83 100
85 65.0 46.0 85.4



#27
1,2-Dichloroethane
Concen: 51.071 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

Tgt Ion: 62 Resp: 100740
Ion Ratio Lower Upper
62 100
98 8.0 6.7 10.1





#29

Cyclohexane

Concen: 51.456 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

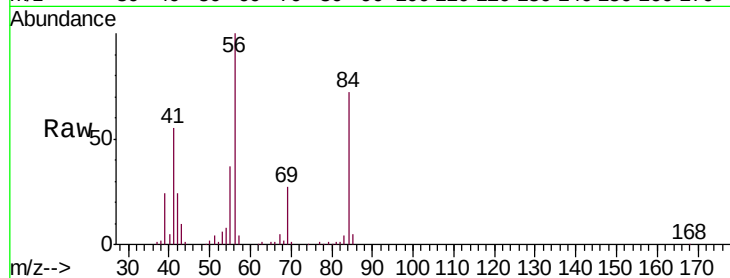
Tgt Ion: 56 Resp: 130592

Ion Ratio Lower Upper

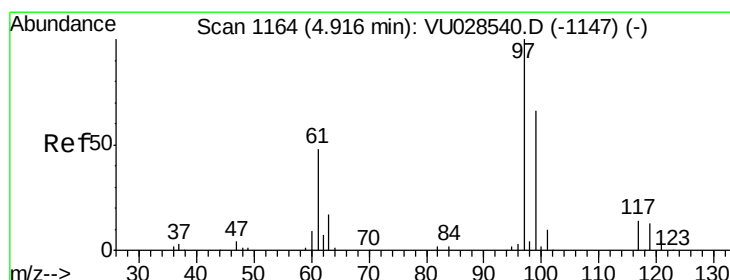
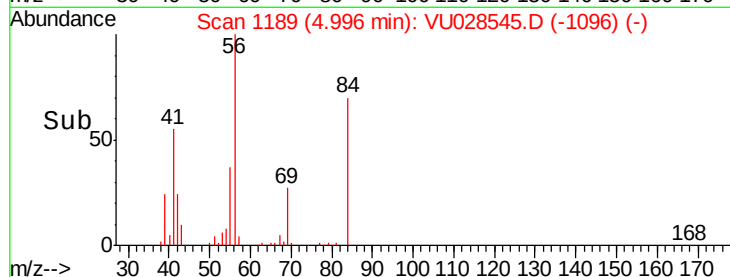
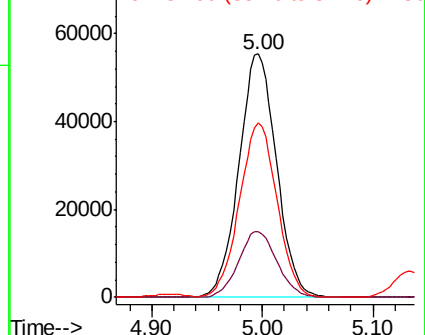
56 100

69 27.5 22.2 33.2

84 71.7 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 51.659 ug/L

RT: 4.91 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

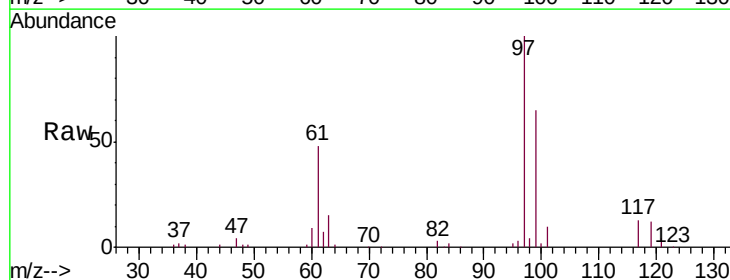
Tgt Ion: 97 Resp: 98349

Ion Ratio Lower Upper

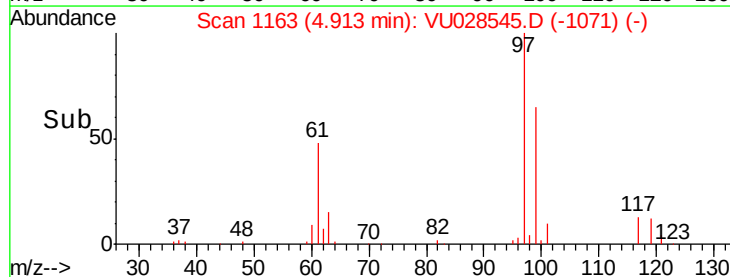
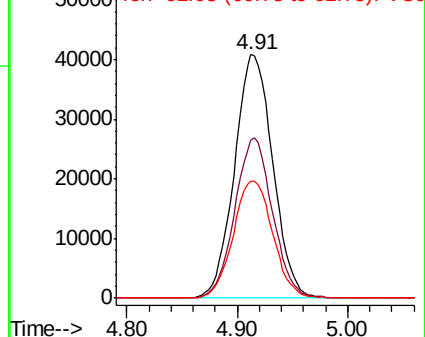
97 100

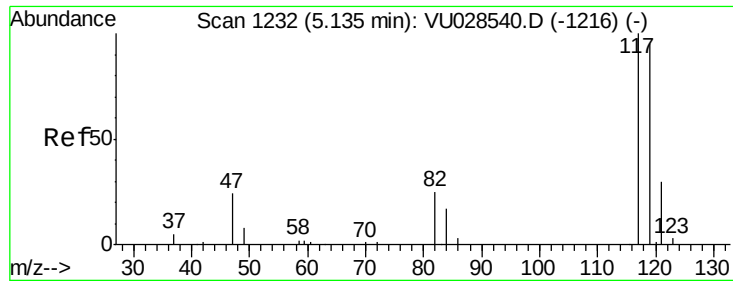
99 64.6 51.4 77.0

61 49.4 38.7 58.1



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

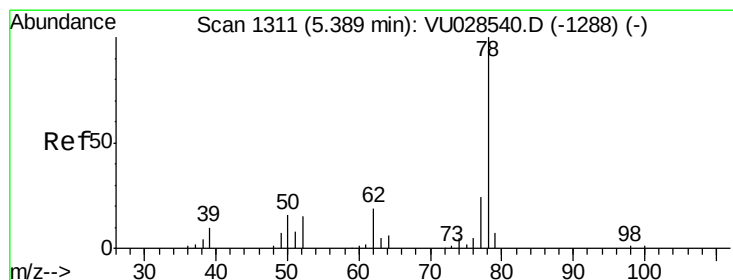
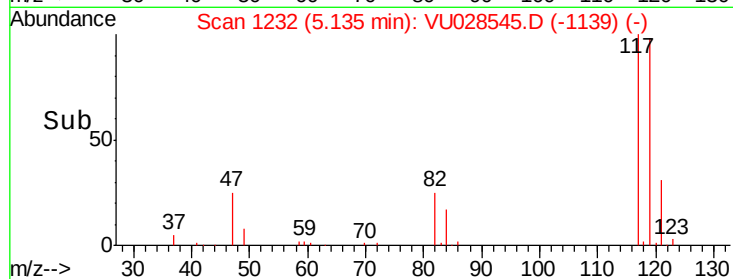
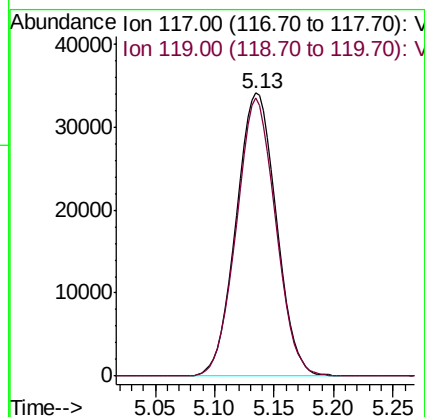
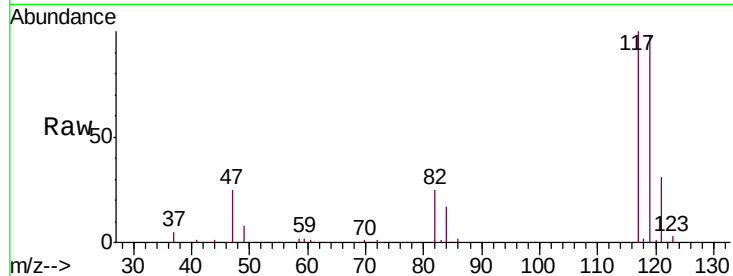




#31
Carbon tetrachloride
Concen: 51.811 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

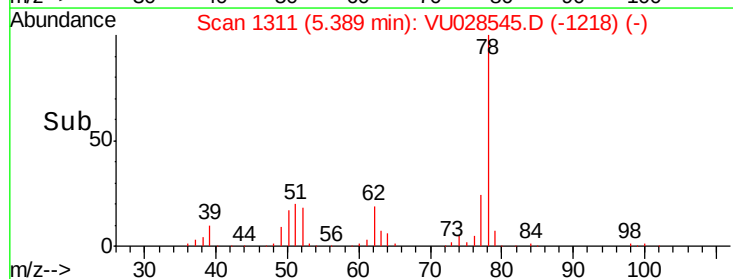
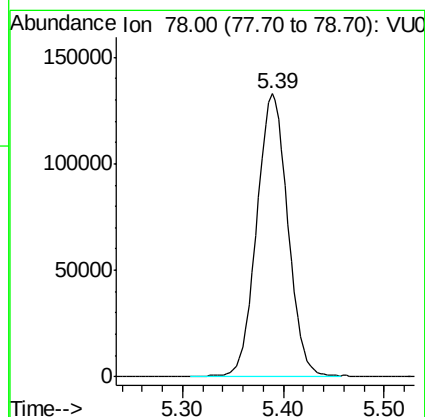
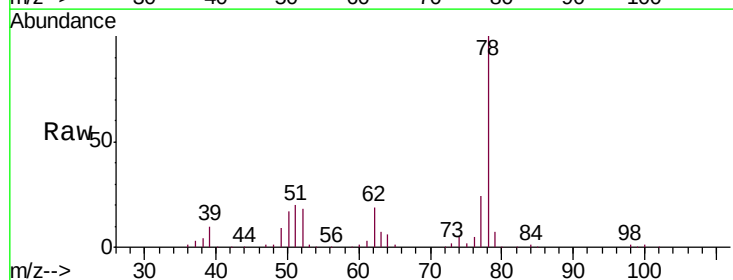
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

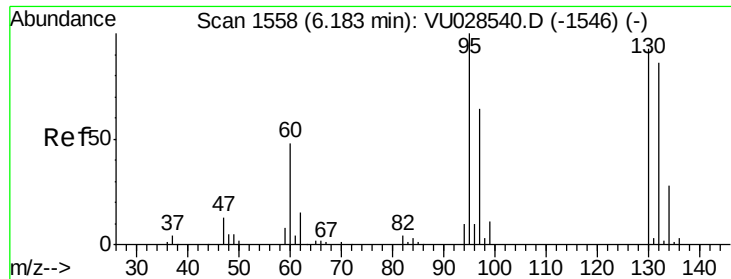
Tgt Ion:117 Resp: 79801
Ion Ratio Lower Upper
117 100
119 95.8 77.4 116.2



#33
Benzene
Concen: 52.014 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

Tgt Ion: 78 Resp: 284523





#34

Trichloroethene

Concen: 50.907 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

Tgt Ion: 95 Resp: 67637

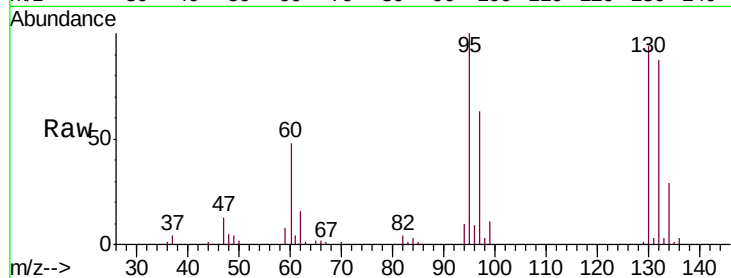
Ion Ratio Lower Upper

95 100

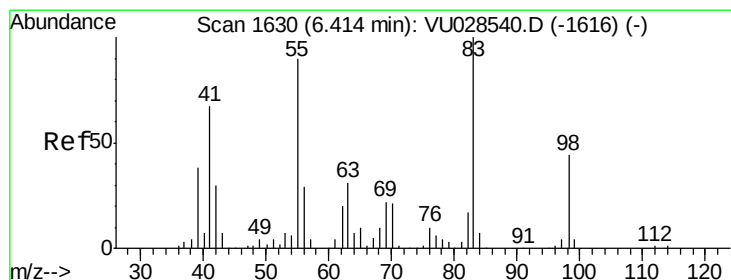
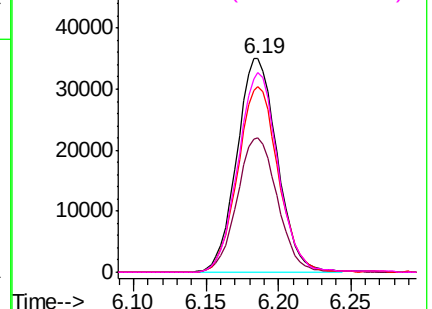
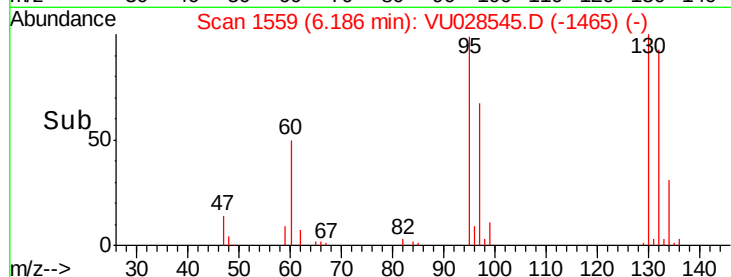
97 62.9 43.5 80.9

132 87.2 59.6 110.6

130 93.7 61.8 114.8



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 97.00 (96.70 to 97.70): VU0
Ion 132.00 (131.70 to 132.70): V
Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 52.702 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

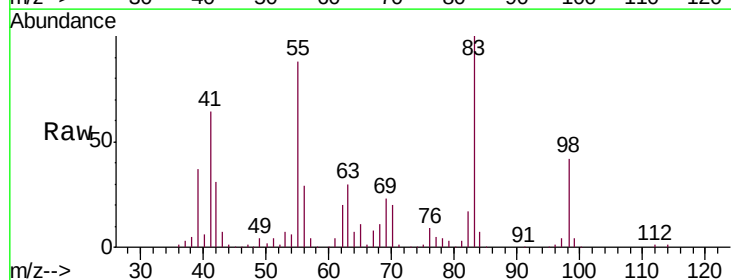
Tgt Ion: 83 Resp: 118052

Ion Ratio Lower Upper

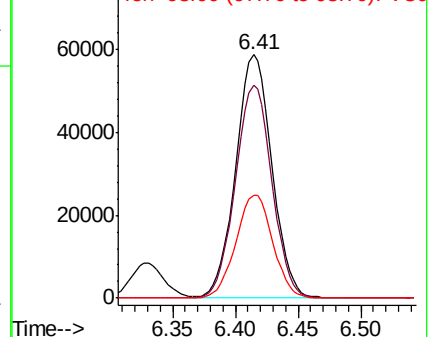
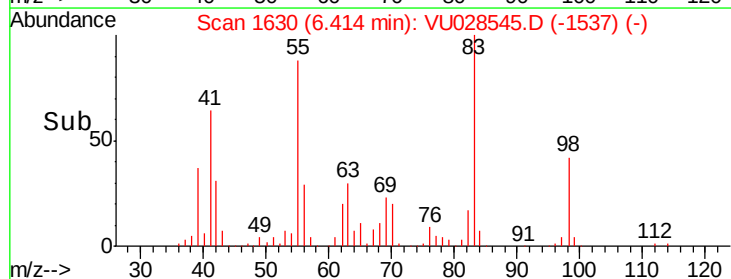
83 100

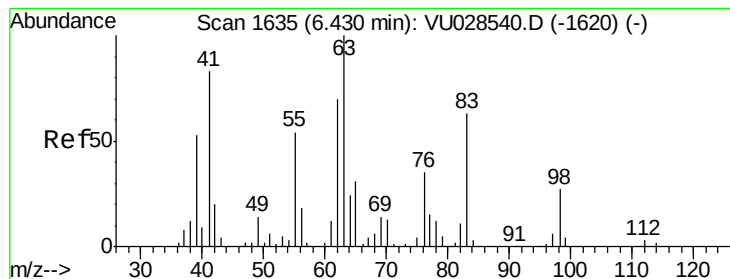
55 88.0 70.1 105.1

98 43.0 34.4 51.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.824 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

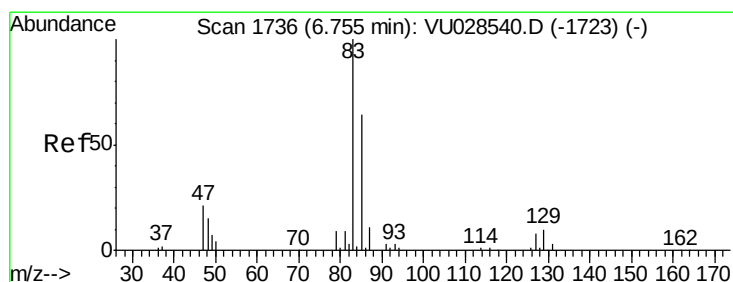
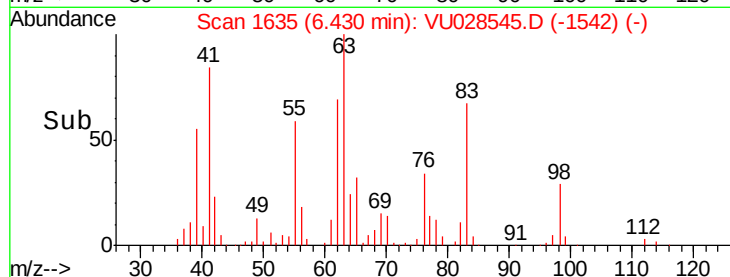
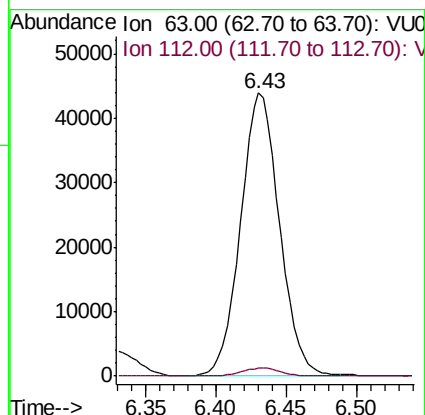
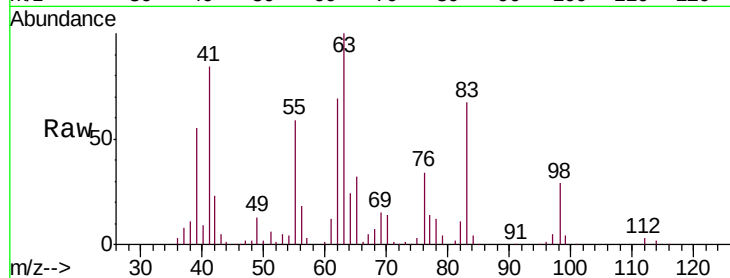
VSTD05042

Tgt Ion: 63 Resp: 84744

Ion Ratio Lower Upper

63 100

112 2.8 2.4 3.6



#38

Bromodichloromethane

Concen: 51.490 ug/L

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

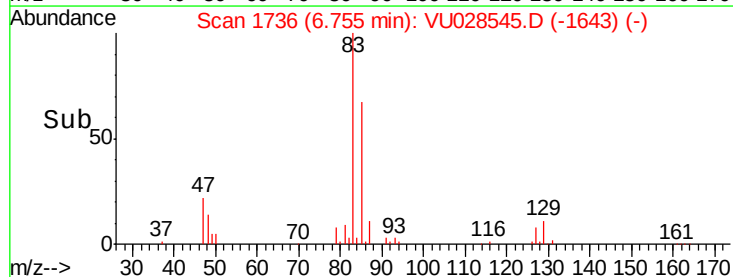
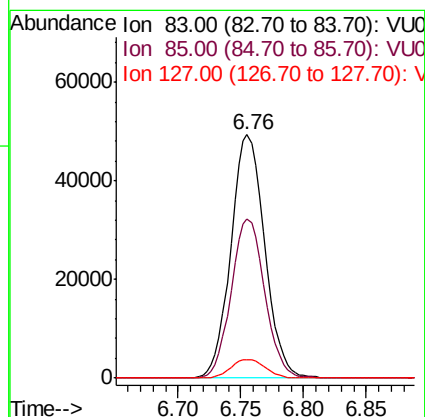
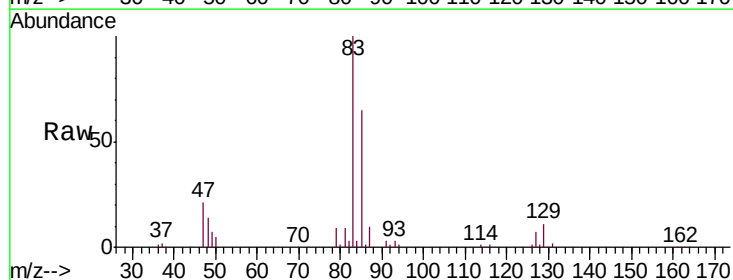
Tgt Ion: 83 Resp: 92594

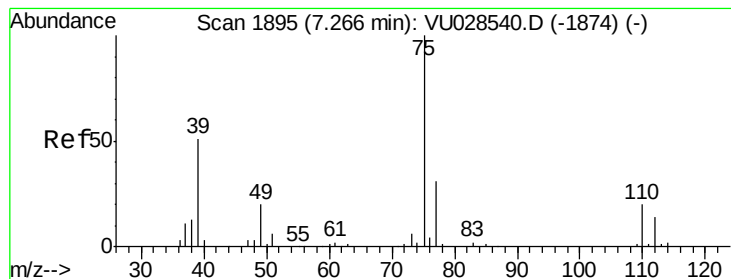
Ion Ratio Lower Upper

83 100

85 65.5 46.5 86.3

127 7.5 6.3 9.5



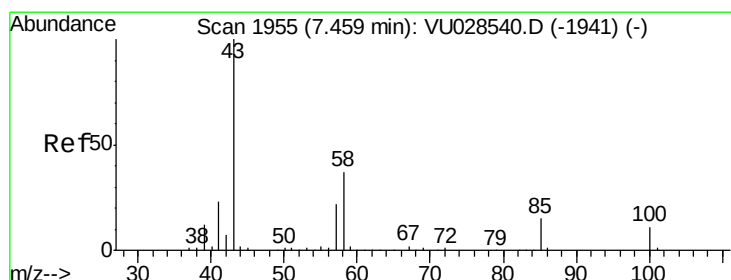
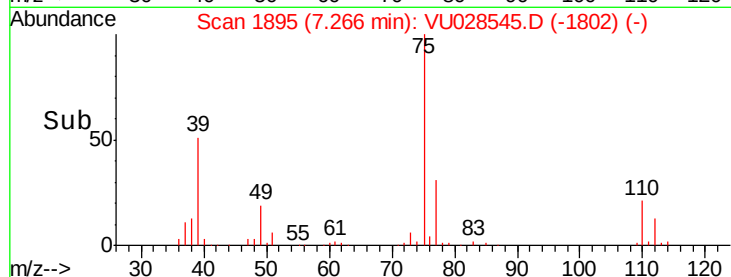
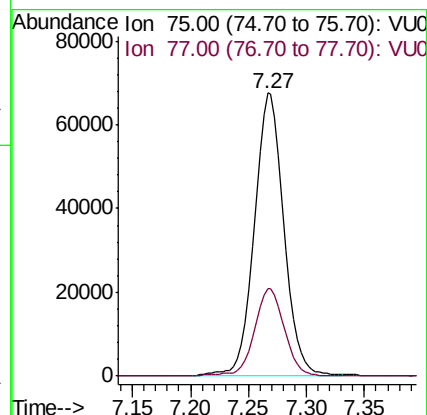
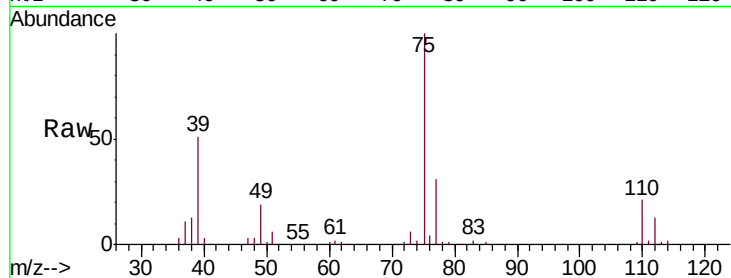


#39

cis-1,3-Dichloropropene
 Concen: 52.068 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

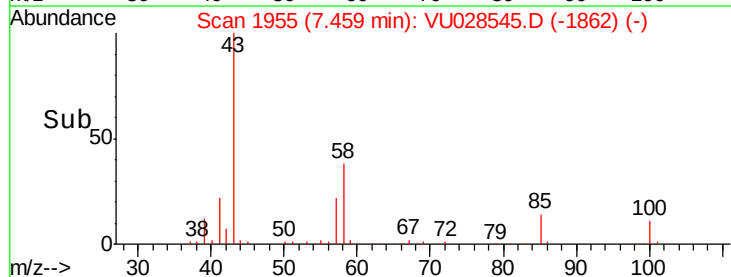
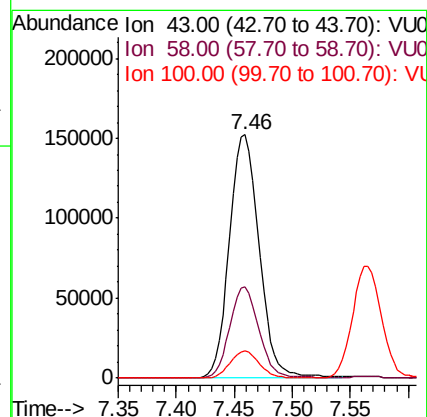
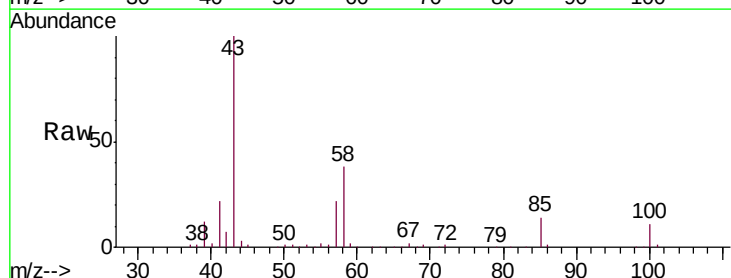
Tgt Ion: 75 Resp: 120838
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.8 40.6

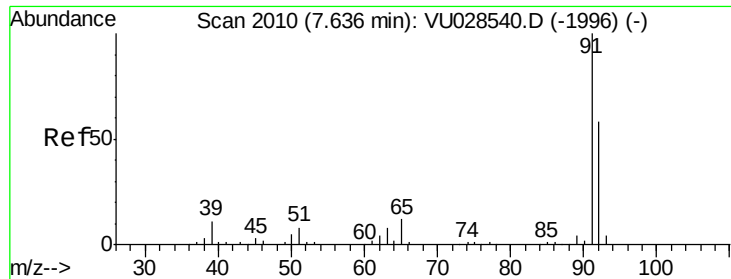


#40

4-Methyl-2-pentanone
 Concen: 108.998 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Tgt Ion: 43 Resp: 271407
 Ion Ratio Lower Upper
 43 100
 58 36.7 29.6 44.4
 100 11.0 9.0 13.4





#42

Toluene

Concen: 51.624 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

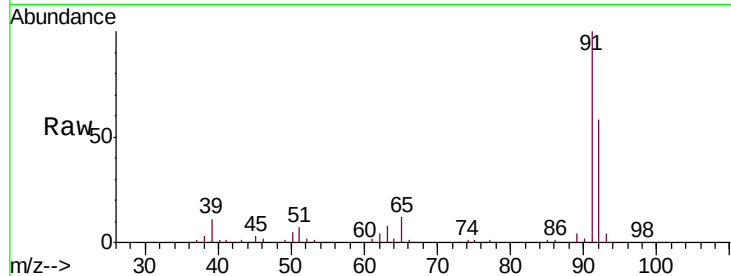
VSTD05042

Tgt Ion: 91 Resp: 286873

Ion Ratio Lower Upper

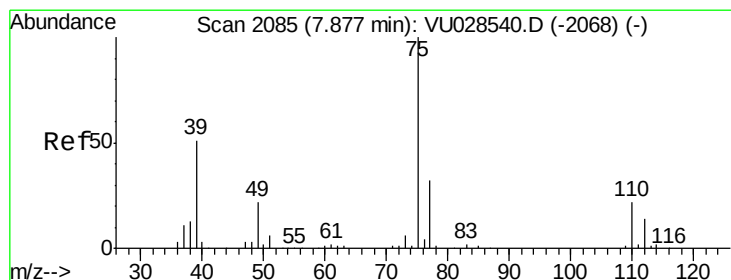
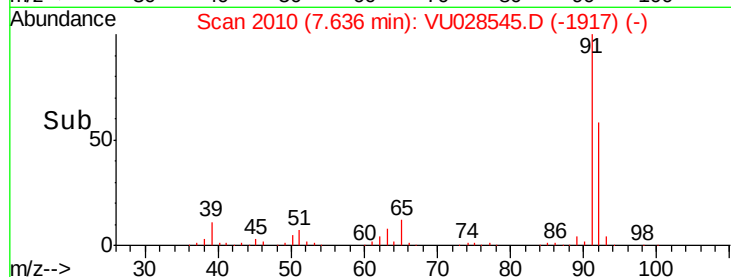
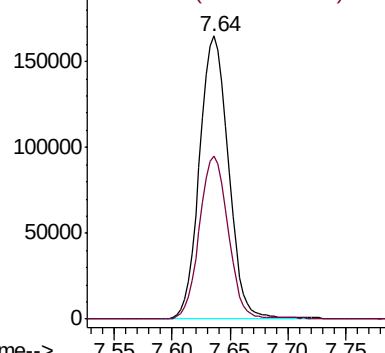
91 100

92 57.7 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 51.746 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028545.D

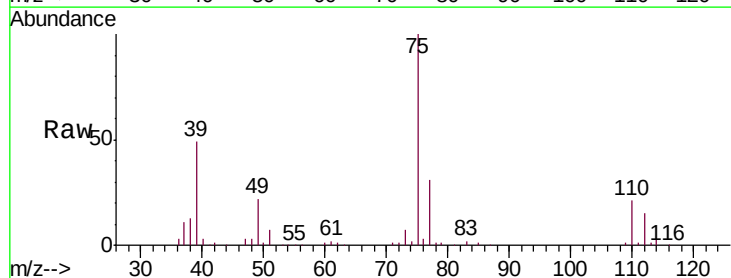
Acq: 10 Dec 2018 11:52

Tgt Ion: 75 Resp: 110767

Ion Ratio Lower Upper

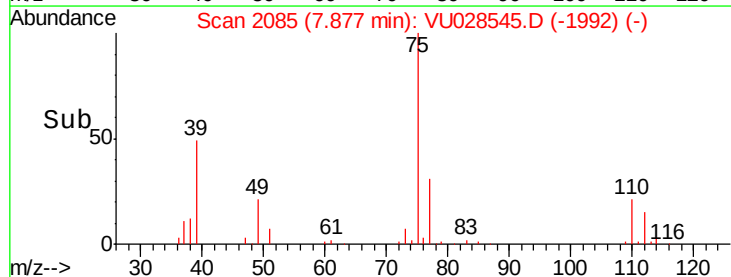
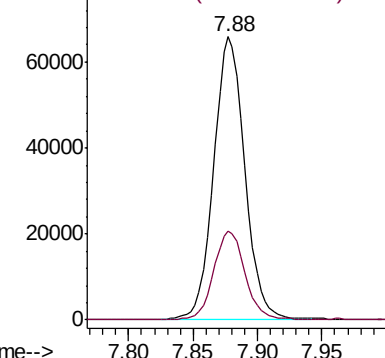
75 100

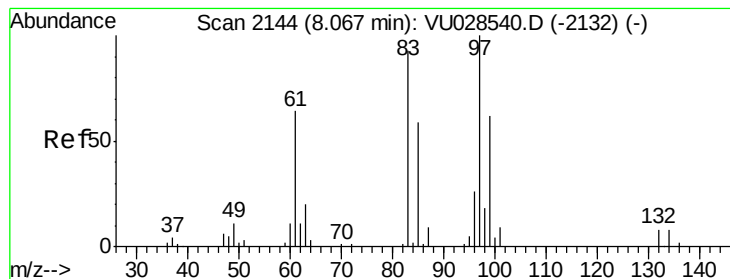
77 31.3 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#45

1,1,2-Trichloroethane

Concen: 52.242 ug/L

RT: 8.06 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

Tgt Ion: 97 Resp: 66942

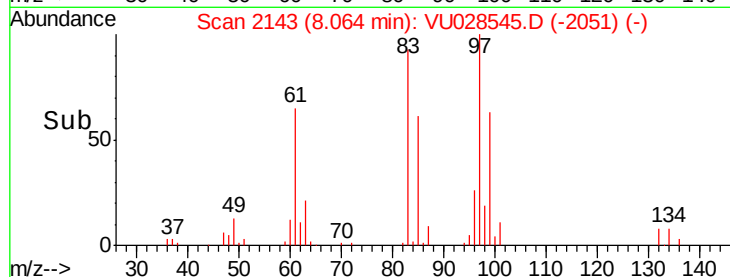
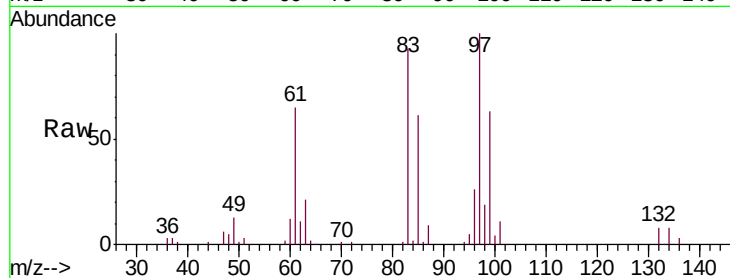
Ion Ratio Lower Upper

97 100

99 62.8 44.2 82.2

83 92.6 66.0 122.6

85 60.8 42.5 78.9

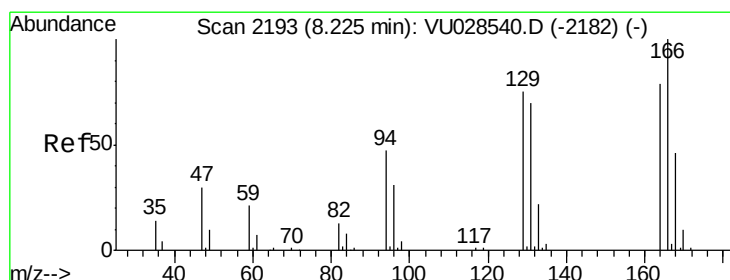
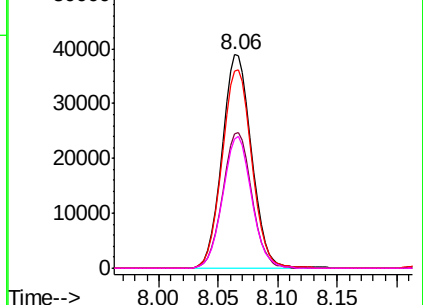


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 50.985 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Tgt Ion: 164 Resp: 47931

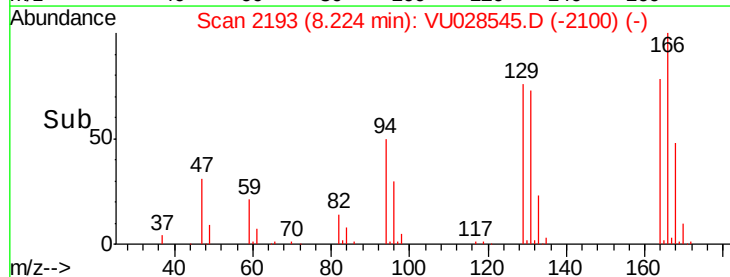
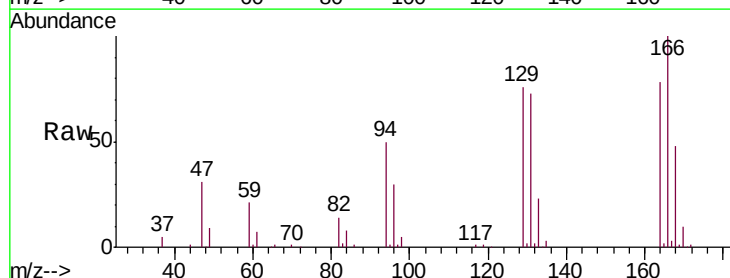
Ion Ratio Lower Upper

164 100

129 97.8 68.2 126.6

131 93.5 66.1 122.7

166 128.4 88.3 163.9

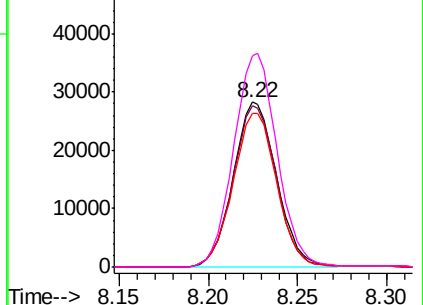


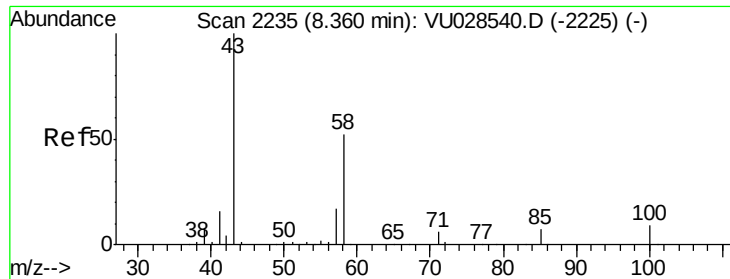
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

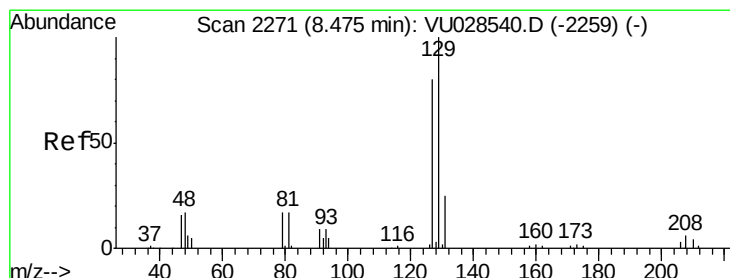
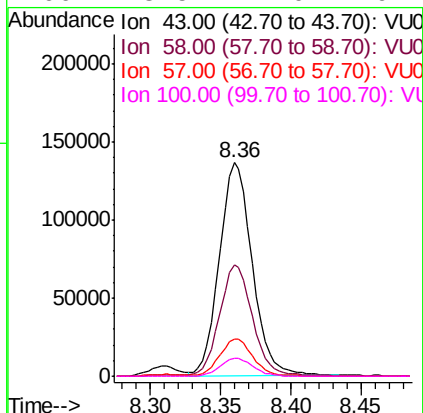
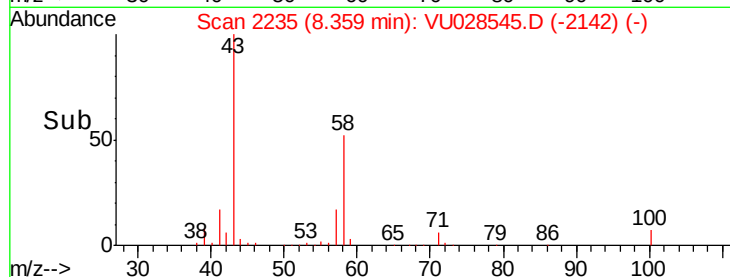
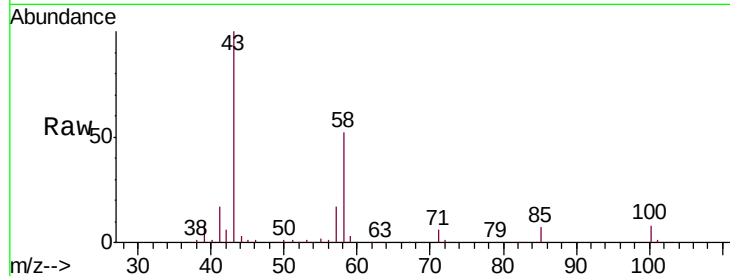




#48
2-Hexanone
Concen: 105.114 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

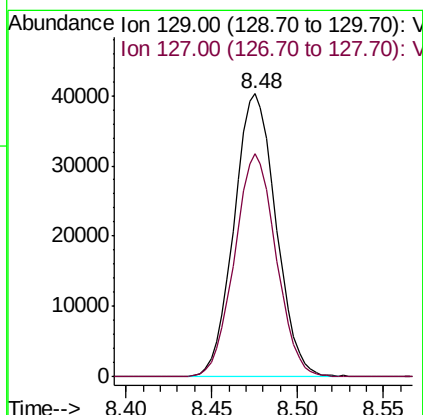
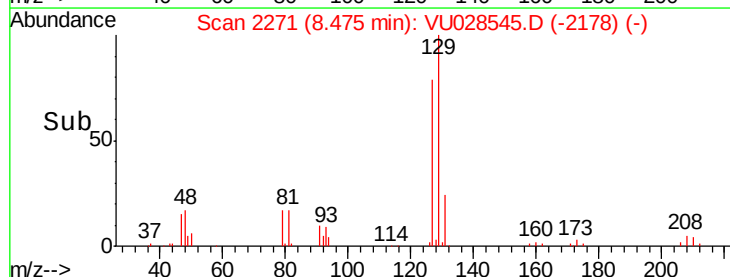
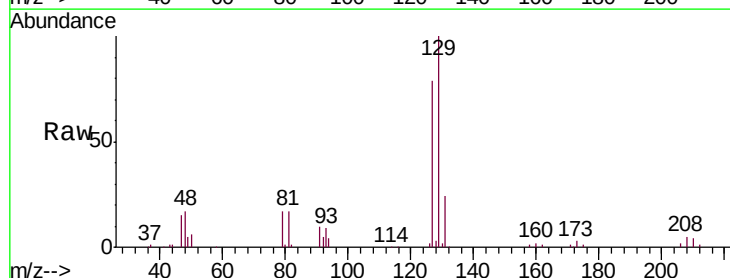
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

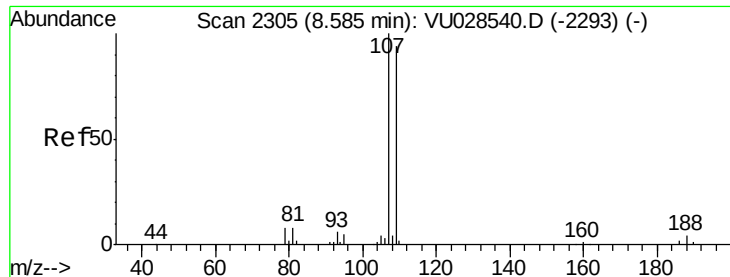
Tgt Ion: 43 Resp: 221471
Ion Ratio Lower Upper
43 100
58 52.5 41.6 62.4
57 17.8 13.8 20.6
100 8.5 7.0 10.4



#49
Dibromochloromethane
Concen: 52.584 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

Tgt Ion: 129 Resp: 68161
Ion Ratio Lower Upper
129 100
127 78.9 54.0 100.2

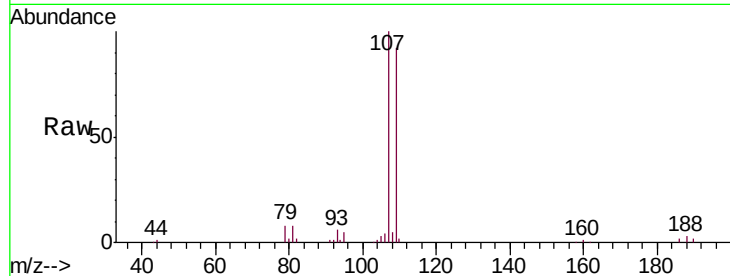




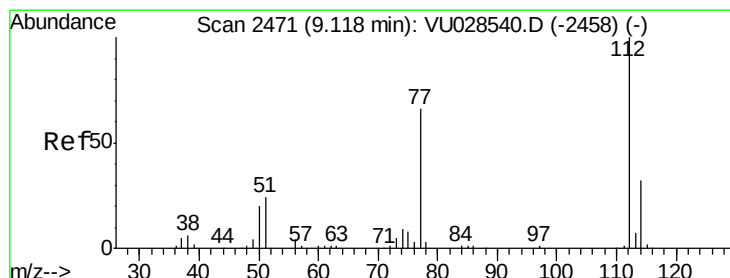
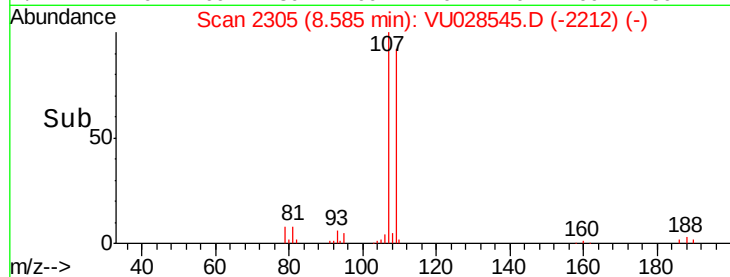
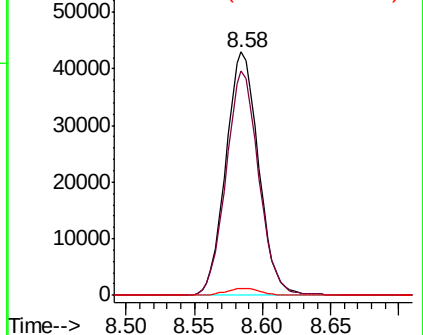
#50
1,2-Dibromoethane
Concen: 53.429 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Tgt Ion:107 Resp: 71801
Ion Ratio Lower Upper
107 100
109 92.0 64.5 119.9
188 3.0 2.6 3.8

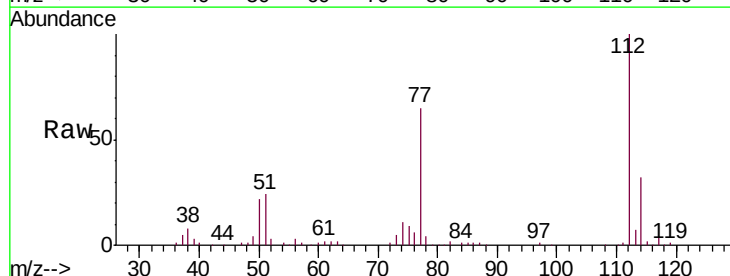


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

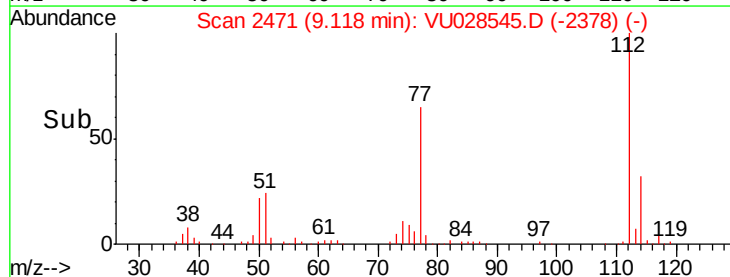
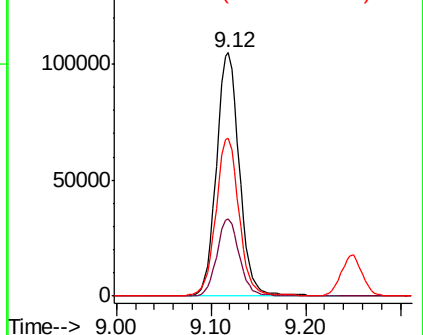


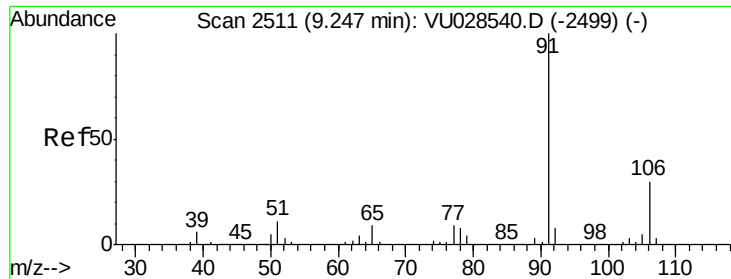
#51
Chlorobenzene
Concen: 52.653 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028545.D
Acq: 10 Dec 2018 11:52

Tgt Ion:112 Resp: 176264
Ion Ratio Lower Upper
112 100
114 31.9 23.0 42.6
77 65.1 53.9 80.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 51.692 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

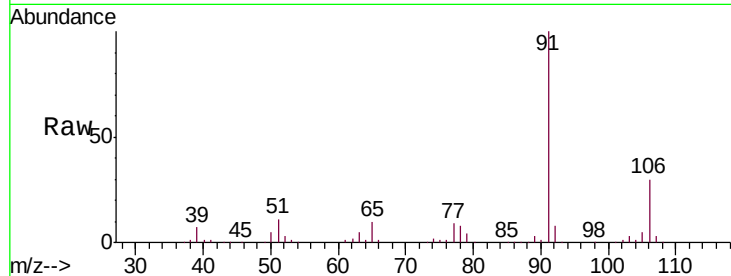
VSTD05042

Tgt Ion: 91 Resp: 318007

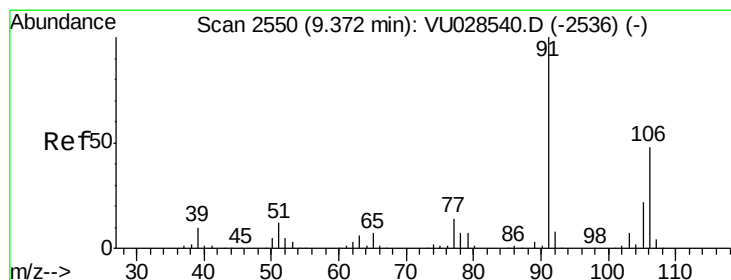
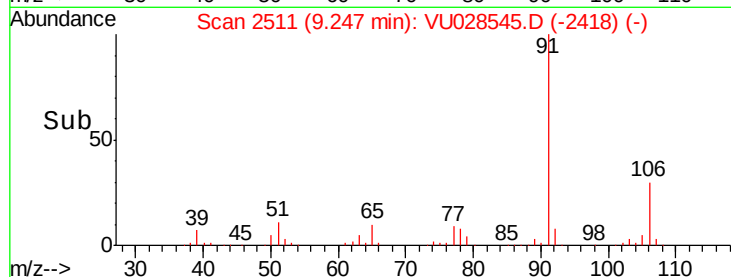
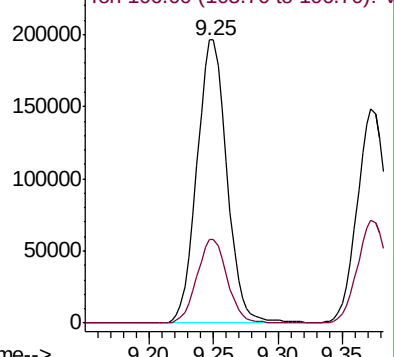
Ion Ratio Lower Upper

91 100

106 29.8 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VU028540.D (-2499) (-)



#53

m,p-Xylene

Concen: 52.411 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028545.D

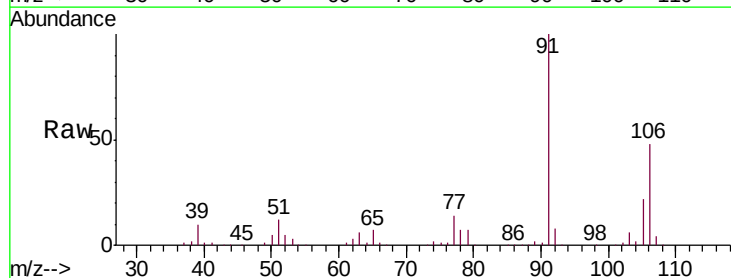
Acq: 10 Dec 2018 11:52

Tgt Ion: 106 Resp: 116722

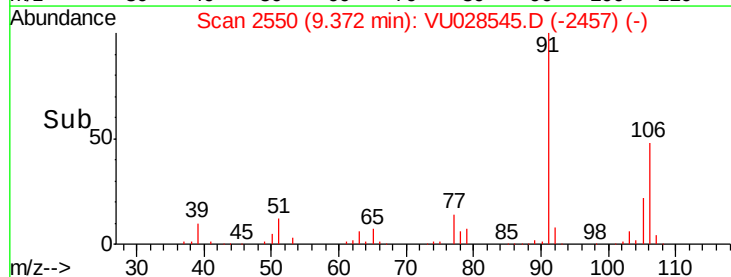
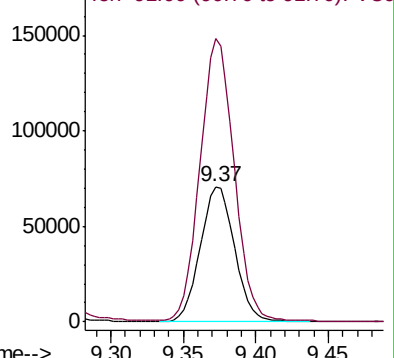
Ion Ratio Lower Upper

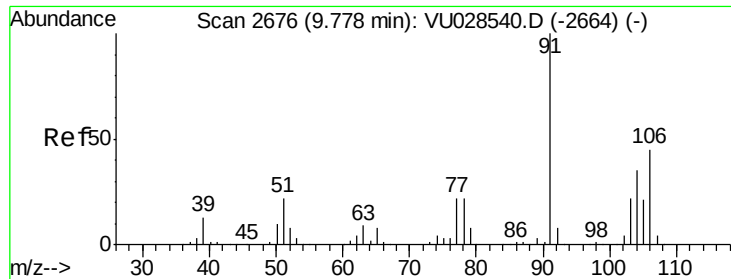
106 100

91 209.0 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VU028540.D (-2536) (-)





#54

o-xylene

Concen: 52.228 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

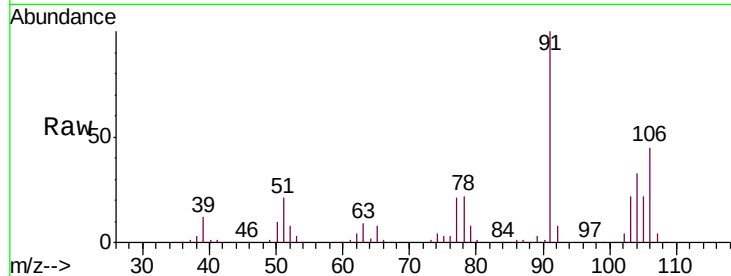
VSTD05042

Tgt Ion:106 Resp: 114214

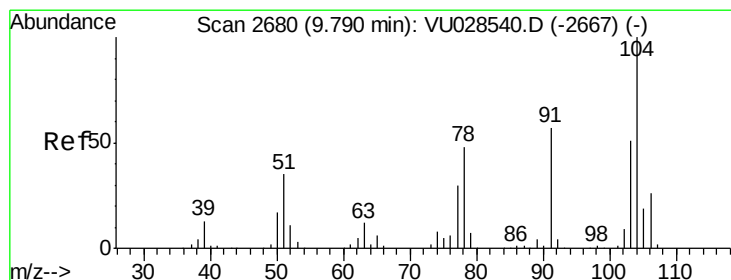
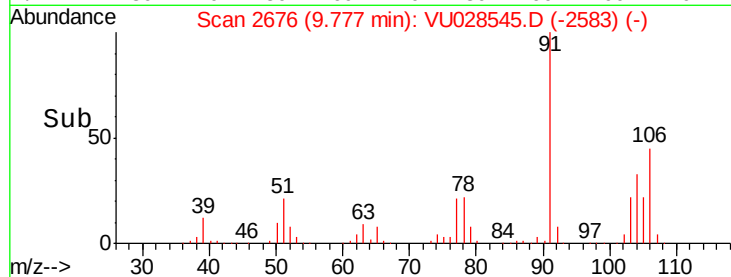
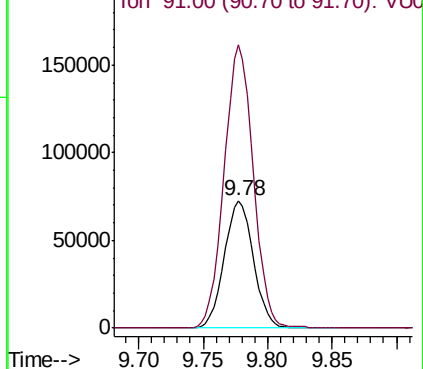
Ion Ratio Lower Upper

106 100

91 221.5 151.4 281.2



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 52.943 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028545.D

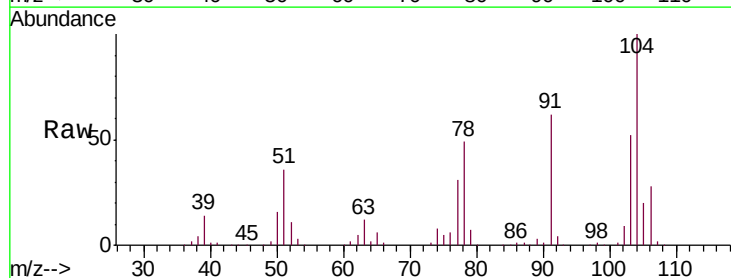
Acq: 10 Dec 2018 11:52

Tgt Ion:104 Resp: 196581

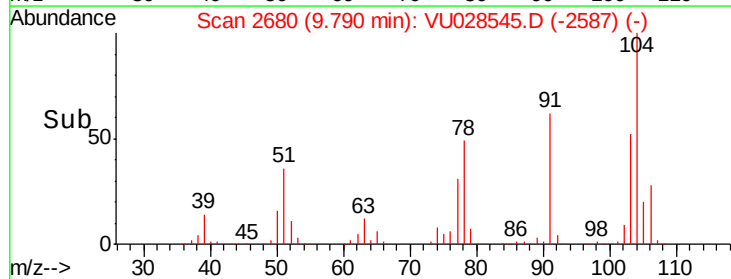
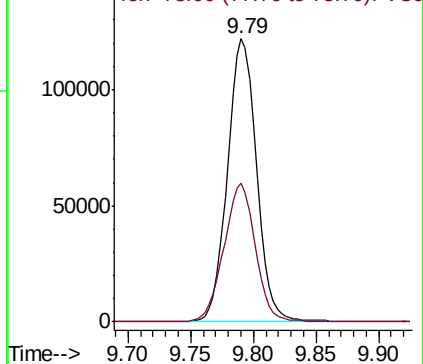
Ion Ratio Lower Upper

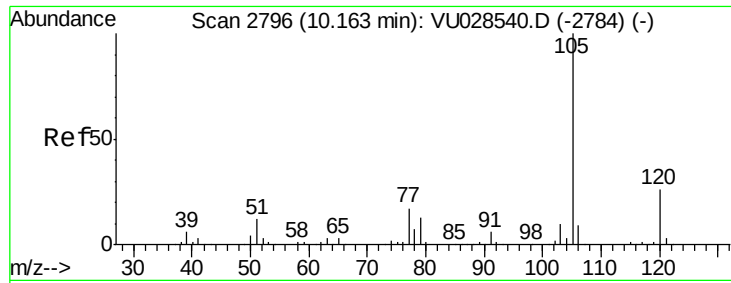
104 100

78 48.8 34.1 63.3



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 52.321 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

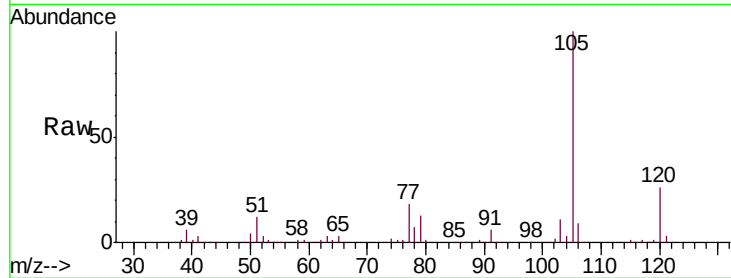
Tgt Ion: 105 Resp: 298250

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.2

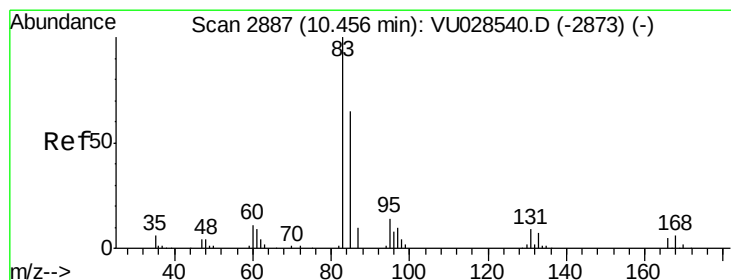
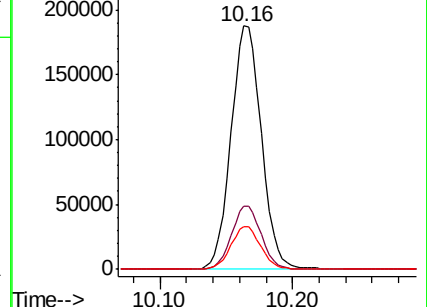
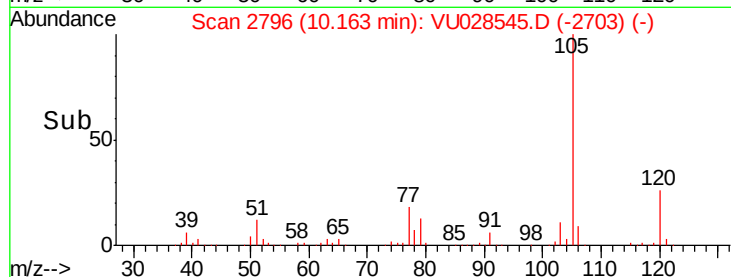
77 17.4 13.1 19.7



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: 52.874 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

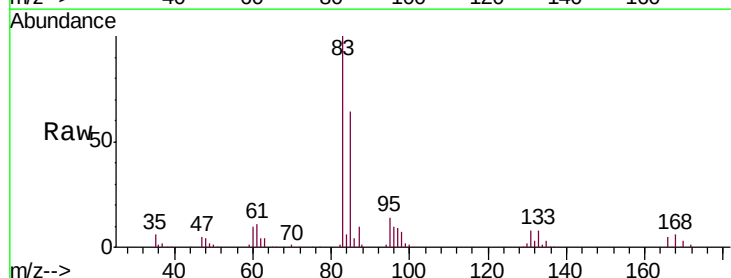
Tgt Ion: 83 Resp: 124442

Ion Ratio Lower Upper

83 100

85 64.1 45.1 83.7

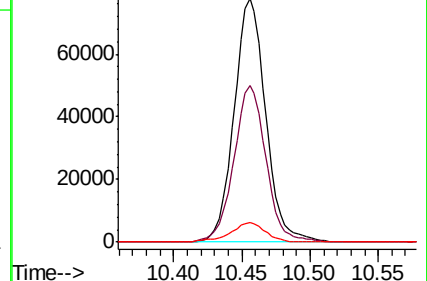
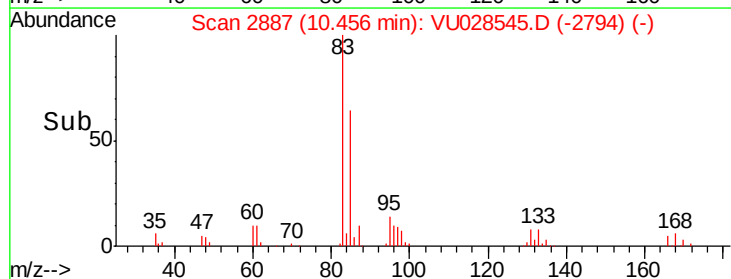
131 8.2 6.4 9.6

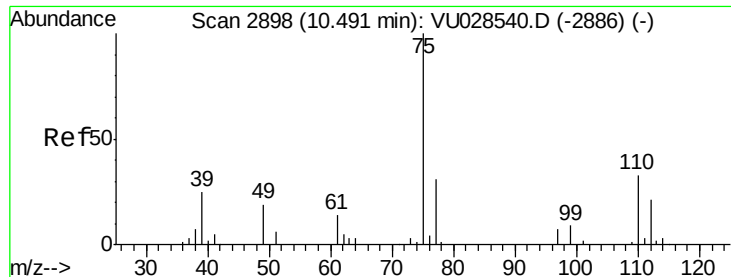


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V

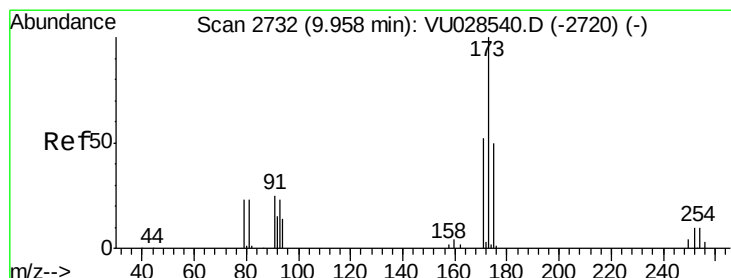
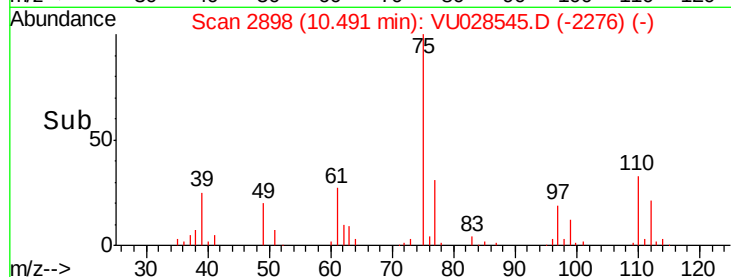
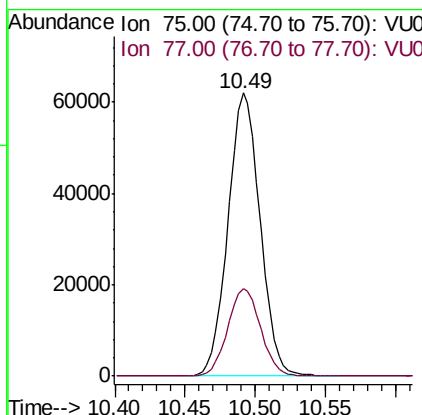
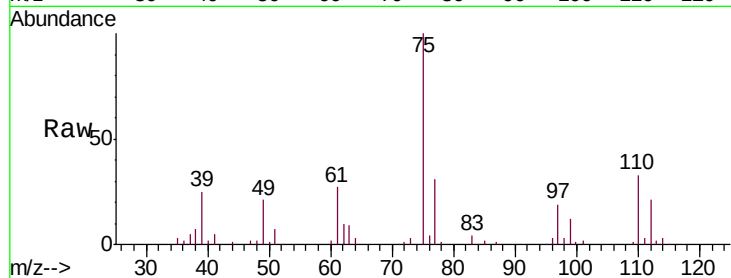




#59
 1,2,3-Trichloropropane
 Concen: 53.459 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

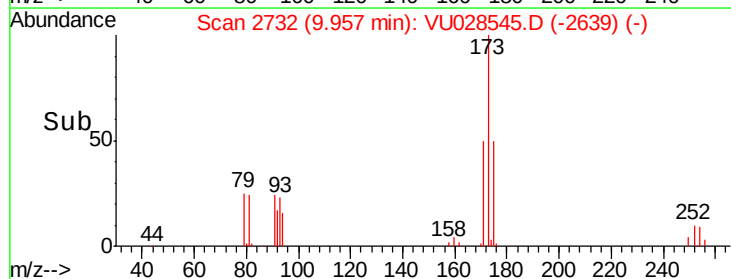
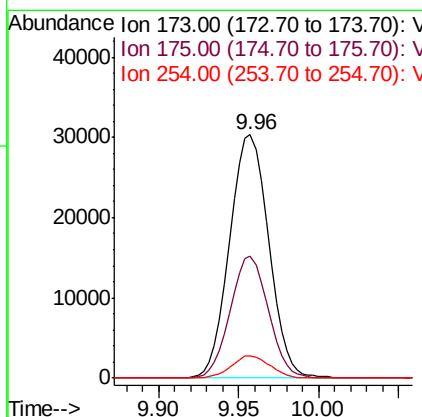
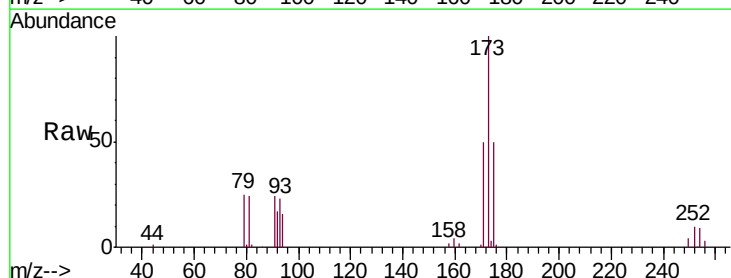
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

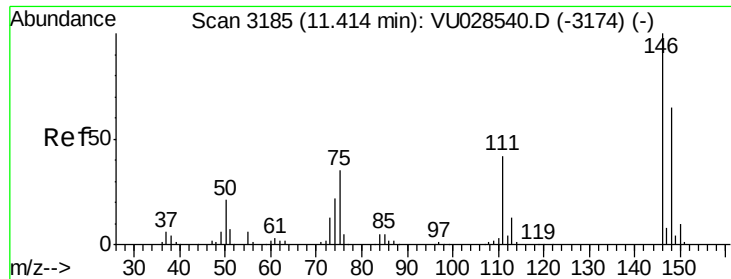
Tgt Ion: 75 Resp: 98773
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.4 38.2



#61
 Bromoform
 Concen: 52.652 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Tgt Ion: 173 Resp: 50738
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.7 58.1
 254 8.9 7.1 10.7

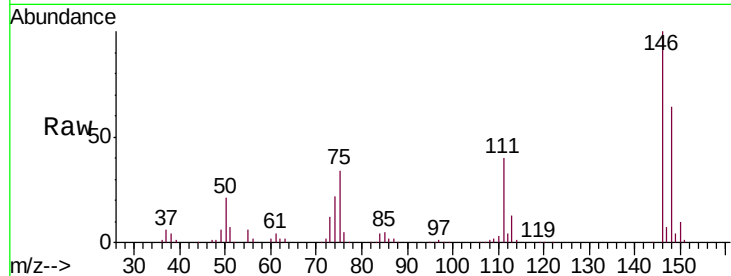




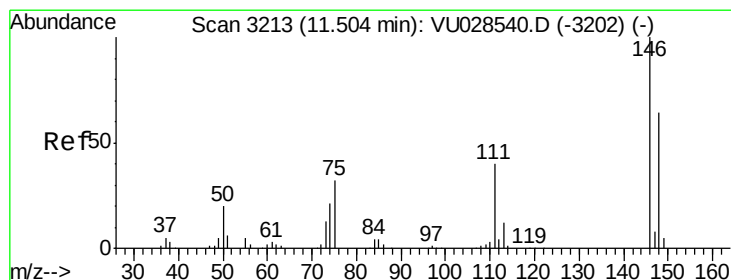
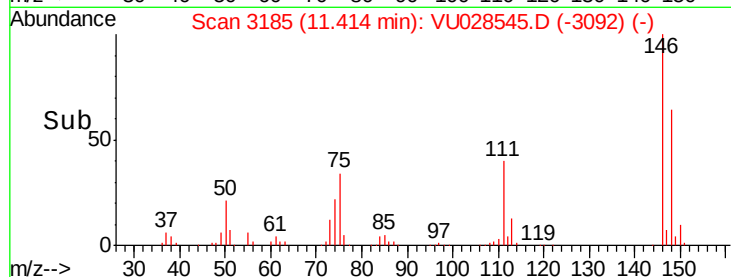
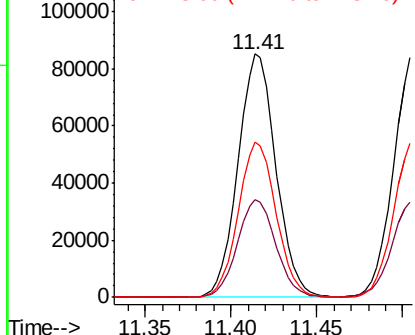
#62
 1,3-Dichlorobenzene
 Concen: 51.023 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion:146 Resp: 131136
 Ion Ratio Lower Upper
 146 100
 111 40.1 28.5 52.9
 148 63.7 43.9 81.5

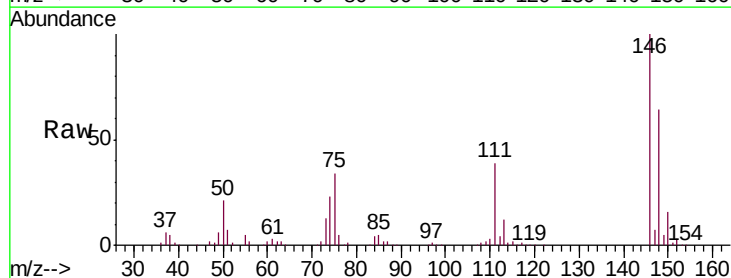


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

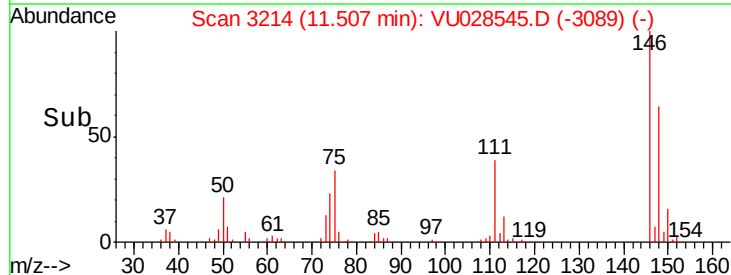
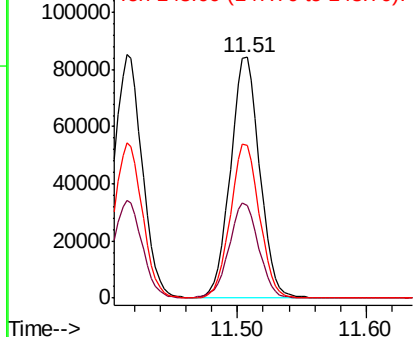


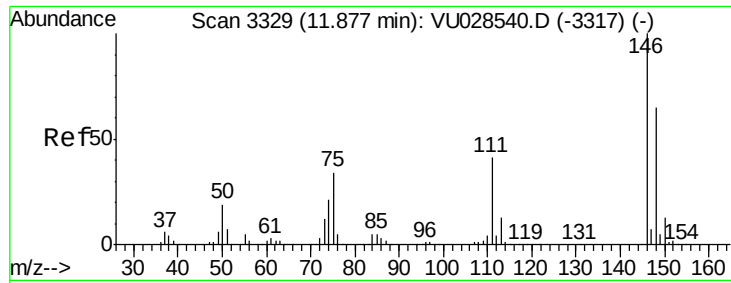
#63
 1,4-Dichlorobenzene
 Concen: 51.110 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Tgt Ion:146 Resp: 132930
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.6 51.4
 148 63.5 45.1 83.9



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

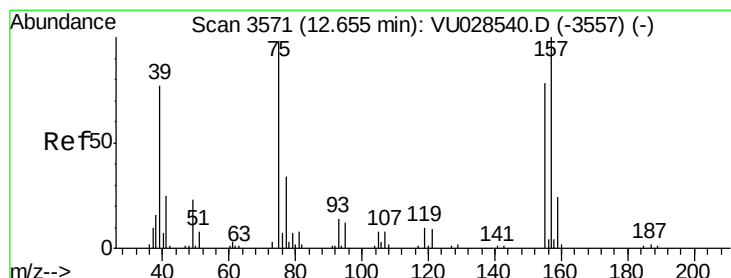
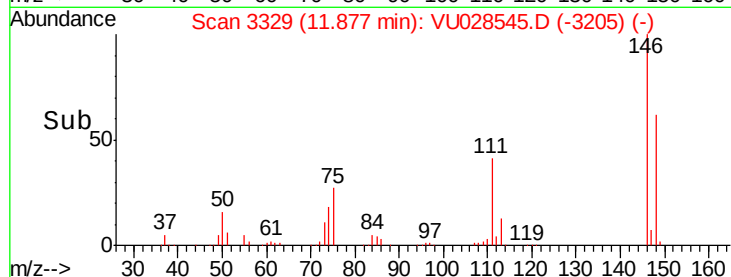
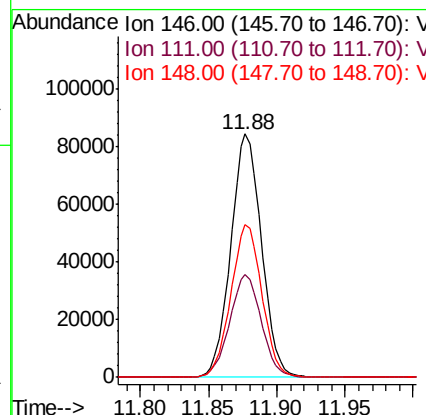
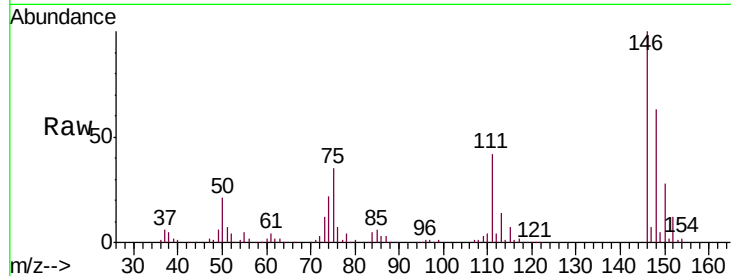




#65
 1,2-Dichlorobenzene
 Concen: 51.446 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

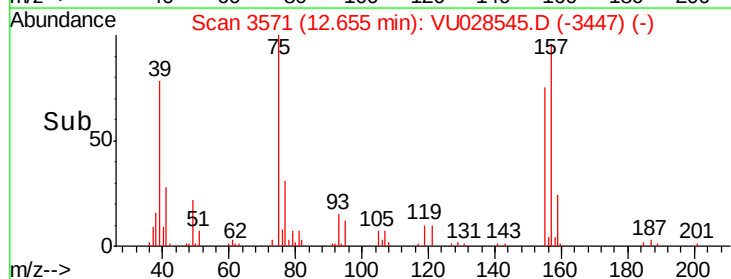
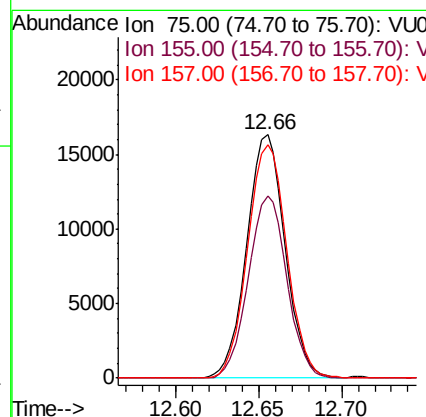
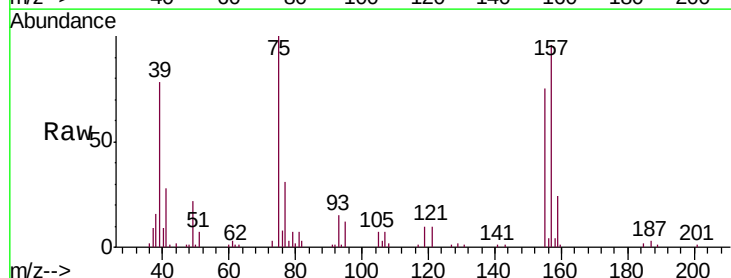
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

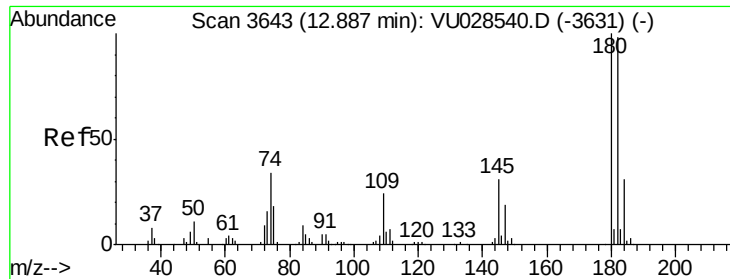
Tgt Ion: 146 Resp: 132110
 Ion Ratio Lower Upper
 146 100
 111 42.1 33.4 50.2
 148 62.6 50.2 75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.922 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Tgt Ion: 75 Resp: 26252
 Ion Ratio Lower Upper
 75 100
 155 75.0 59.9 89.9
 157 95.7 75.8 113.8

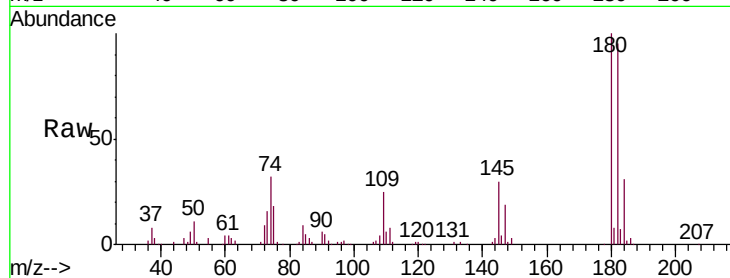




#67
 1,3,5-Trichlorobenzene
 Concen: 52.539 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.0	112.6
184	30.9	23.9	35.9
145	29.5	23.8	35.8



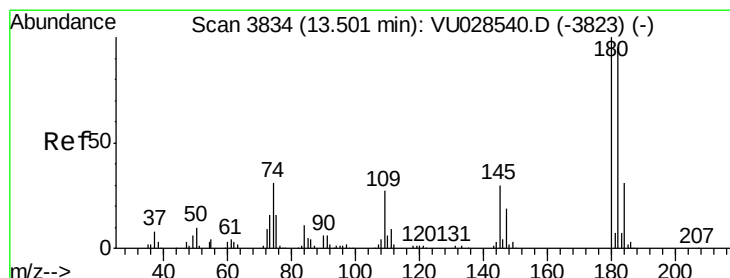
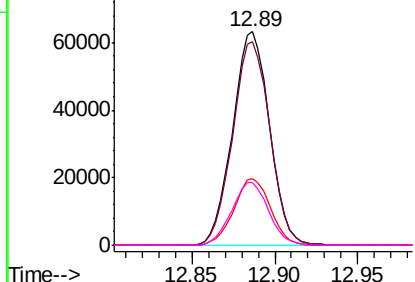
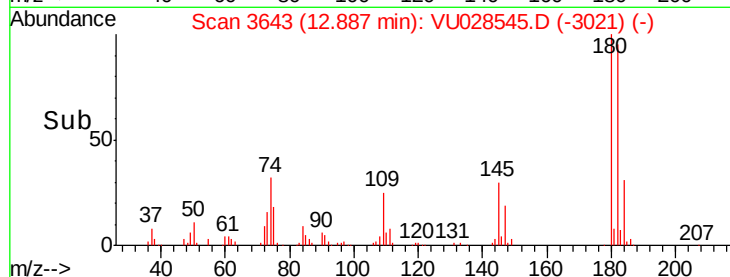
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

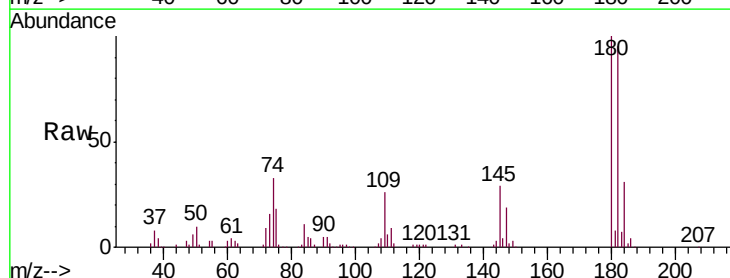
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.506 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028545.D
 Acq: 10 Dec 2018 11:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.8	112.2
145	29.6	23.0	34.6

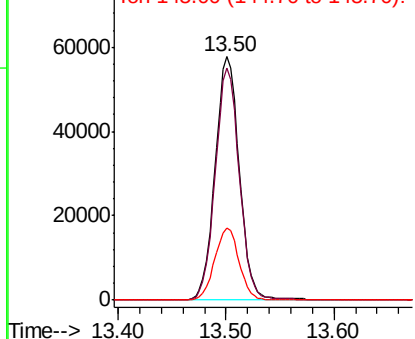
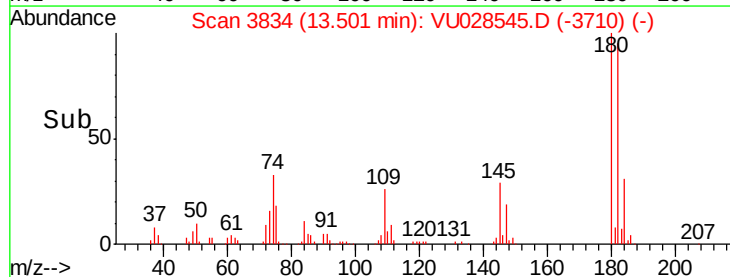


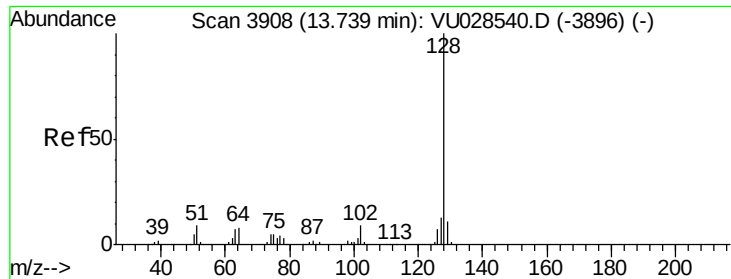
Abundance

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: 53.240 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

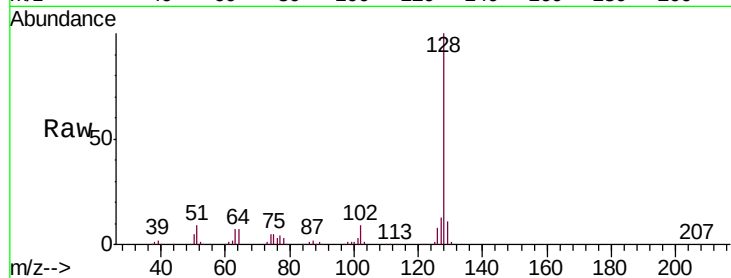
Tgt Ion:128 Resp: 309363

Ion Ratio Lower Upper

128 100

127 12.8 10.7 16.1

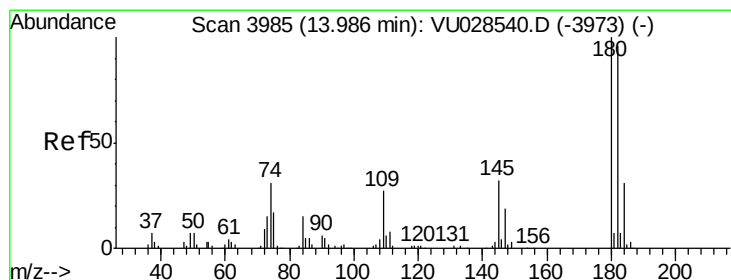
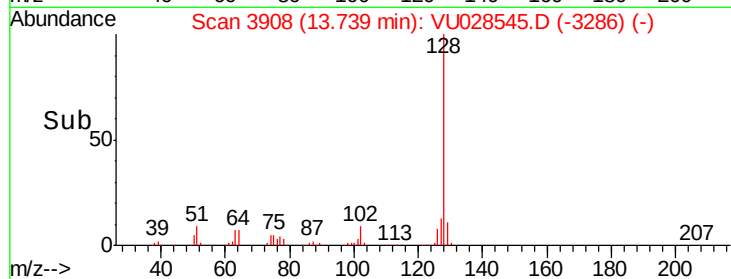
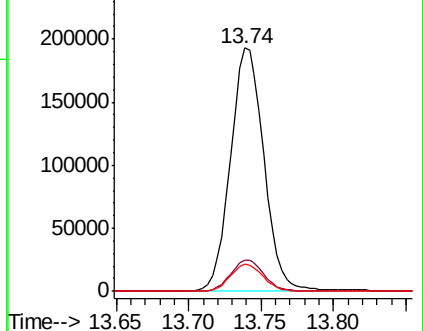
129 10.8 8.6 13.0



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: 53.458 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028545.D

Acq: 10 Dec 2018 11:52

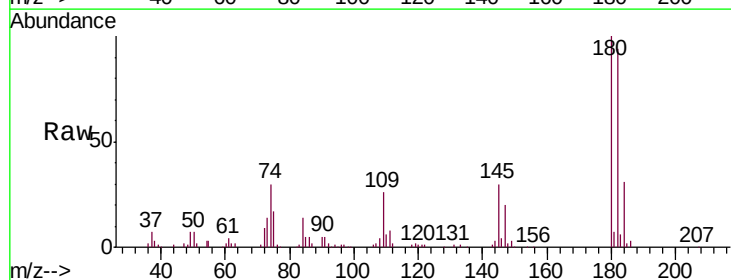
Tgt Ion:180 Resp: 93485

Ion Ratio Lower Upper

180 100

182 94.5 75.2 112.8

145 30.7 25.4 38.0



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

