

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010219\
 Data File : VU028982.D
 Acq On : 02 Jan 2019 09:45
 Operator : MD/SY
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Quant Time: Jan 03 03:30:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122818WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 28 03:05:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	110790	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	104661	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	49608	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	27862	4.70	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.00%
7) Chloroethane-d5	1.68	69	24526	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.28	63	58510	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.20%
20) 2-Butanone-d5	4.20	46	82720	53.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.76%
24) Chloroform-d	4.65	84	58815	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
26) 1,2-Dichloroethane-d4	5.31	65	27852	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
32) Benzene-d6	5.34	84	118219	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
36) 1,2-Dichloropropane-d6	6.33	67	39889	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.56	98	108686	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
43) trans-1,3-Dichloropropene-	7.85	79	14610	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
46) 2-Hexanone-d5	8.31	63	68026	50.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.48%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	31746	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	41515	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	46689	4.812	ug/L	99
3) Chloromethane	1.32	50	52285	4.829	ug/L	99
5) Vinyl chloride	1.40	62	53702	4.854	ug/L	99
6) Bromomethane	1.63	94	25670	5.012	ug/L	97
8) Chloroethane	1.70	64	31075	4.922	ug/L	99
9) Trichlorofluoromethane	1.89	101	59219	4.681	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	38322	4.694	ug/L	99
12) 1,1-Dichloroethene	2.29	96	37092	4.673	ug/L	98
13) Acetone	2.33	43	61223	48.945	ug/L	99
14) Carbon disulfide	2.48	76	135301	4.878	ug/L	99
15) Methyl Acetate	2.62	43	17019	4.643	ug/L	100
16) Methylene chloride	2.70	84	44333	3.901	ug/L	99
17) Methyl tert-butyl Ether	3.00	73	93439	4.794	ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	40639	4.663	ug/L	98
19) 1,1-Dichloroethane	3.44	63	75427	5.098	ug/L	99
21) 2-Butanone	4.28	43	96928	51.794	ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	43233	4.795	ug/L	100

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 Data File : VU028982.D
 Acq On : 02 Jan 2019 09:45
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 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Quant Time: Jan 03 03:30:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122818WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 28 03:05:23 2018
 Response via : Initial Calibration

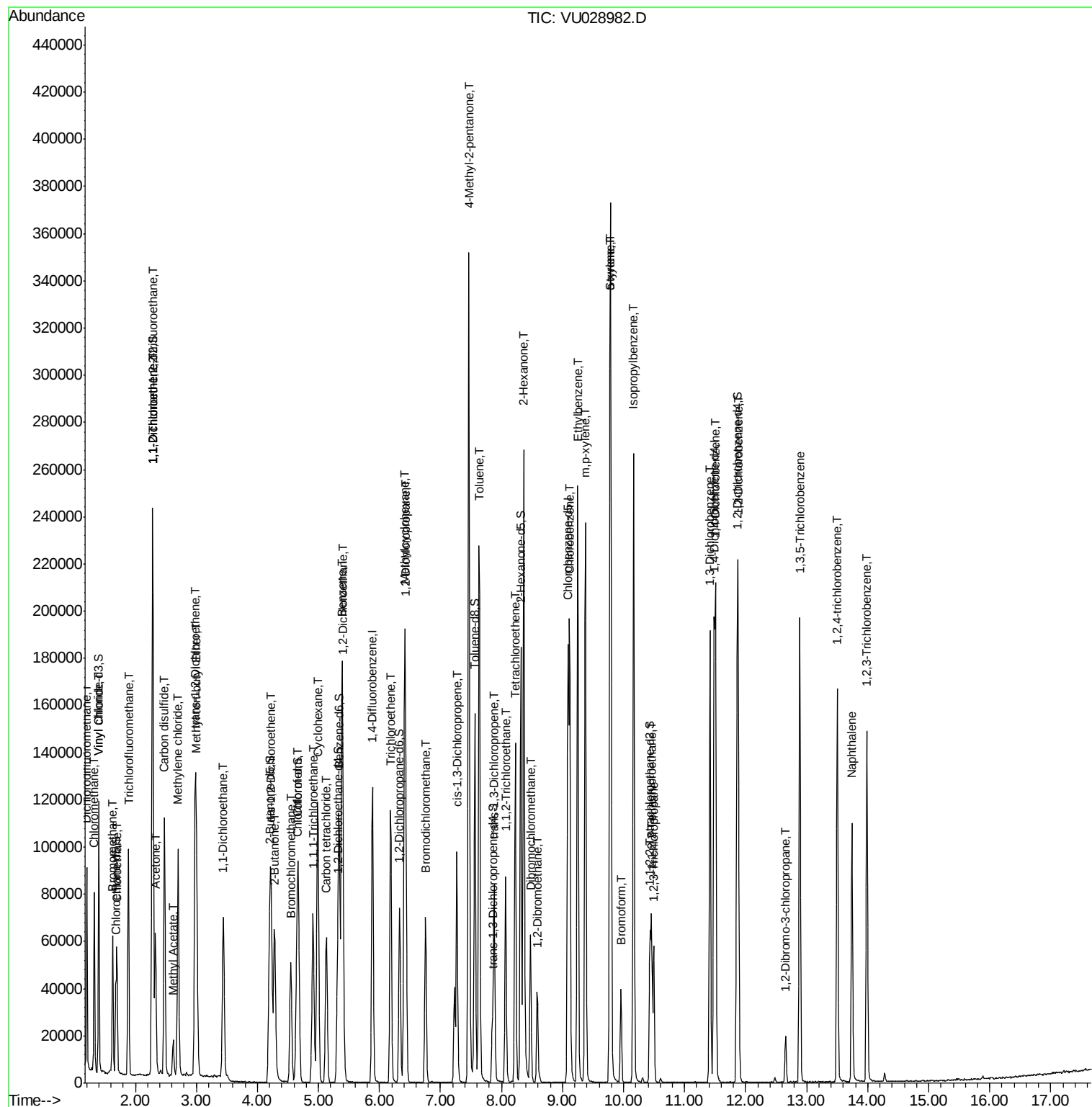
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	18449	5.043	ug/L	96
25) Chloroform	4.67	83	70614	5.023	ug/L	98
27) 1,2-Dichloroethane	5.40	62	41589	5.001	ug/L	100
29) 1,1,1-Trichloroethane	4.91	97	56487	4.914	ug/L	99
30) Cyclohexane	4.99	56	66424	4.823	ug/L	100
31) Carbon tetrachloride	5.13	117	46394	5.069	ug/L	99
33) Benzene	5.39	78	163971	4.900	ug/L	100
34) Trichloroethene	6.18	95	42419	4.957	ug/L	99
35) Methylcyclohexane	6.41	83	70512	4.797	ug/L	99
37) 1,2-Dichloropropane	6.43	63	43968	5.157	ug/L	100
38) Bromodichloromethane	6.76	83	49955	5.204	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	61220	5.008	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	234358	51.658	ug/L	98
42) Toluene	7.63	91	171239	4.780	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	48884	5.131	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	28637	4.935	ug/L	97
47) Tetrachloroethene	8.22	164	34629	4.886	ug/L	96
48) 2-Hexanone	8.36	43	165119	52.616	ug/L	99
49) Dibromochloromethane	8.48	129	33155	5.382	ug/L	97
50) 1,2-Dibromoethane	8.58	107	27181	5.008	ug/L	99
51) Chlorobenzene	9.12	112	107873	4.801	ug/L	98
52) Ethylbenzene	9.25	91	182634	4.806	ug/L	97
53) m,p-xylene	9.37	106	69819	4.828	ug/L	97
54) o-xylene	9.78	106	68465	4.877	ug/L	99
55) Styrene	9.79	104	115877	4.959	ug/L	100
56) Isopropylbenzene	10.16	105	176798	4.775	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	37075	5.220	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	25978	5.227	ug/L	99
61) Bromoform	9.96	173	19166	5.662	ug/L	96
62) 1,3-Dichlorobenzene	11.41	146	83857	5.001	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	84623	4.945	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	80260	5.058	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	5327	5.686	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	66903	5.156	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	55418	5.125	ug/L	98
69) Naphthalene	13.74	128	95491	5.163	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	52840	5.123	ug/L	98

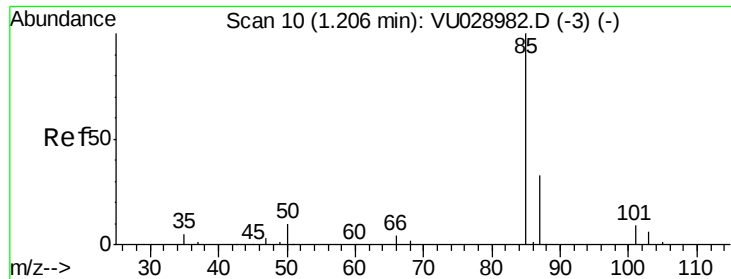
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VU028982.D
Acq On : 02 Jan 2019 09:45
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Sample : VSTDCCC005
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Quant Time: Jan 03 03:30:08 2019
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#2

Dichlorodifluoromethane

Concen: 4.812 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

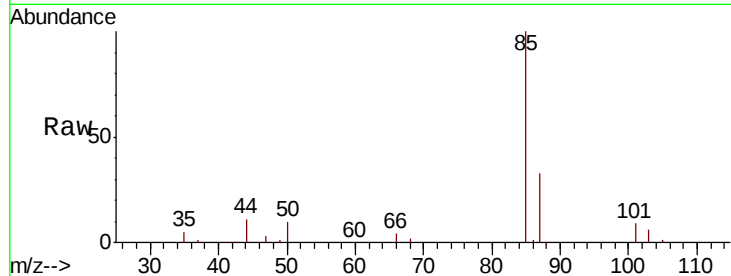
VSTD00551

Tot Ion: 85 Resp: 46689

Ion Ratio Lower Upper

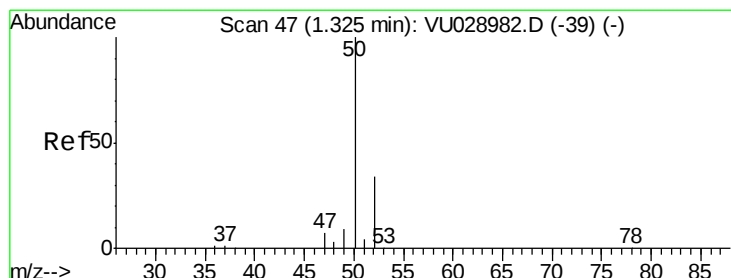
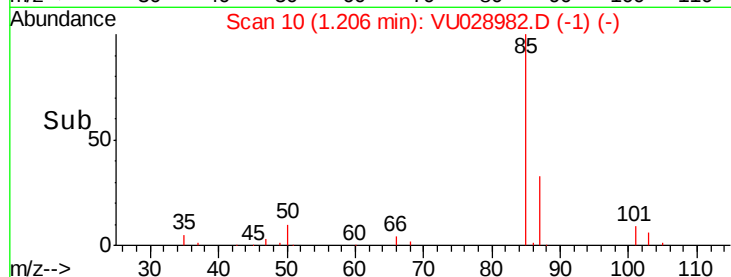
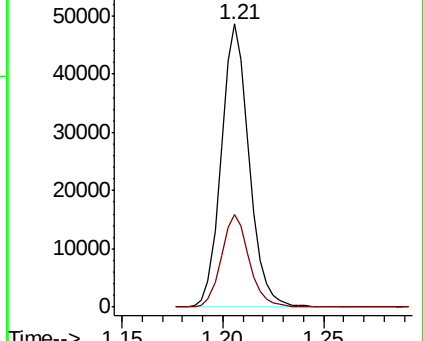
85 100

87 32.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.829 ug/L

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU028982.D

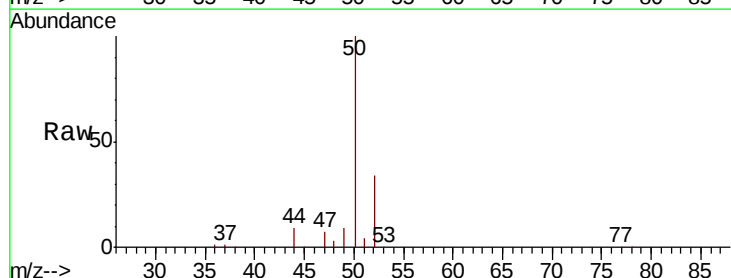
Acq: 02 Jan 2019 09:45

Tgt Ion: 50 Resp: 52285

Ion Ratio Lower Upper

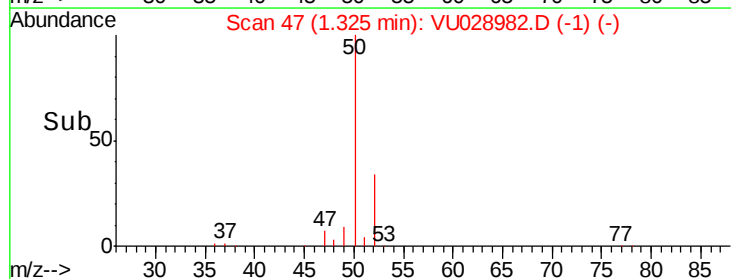
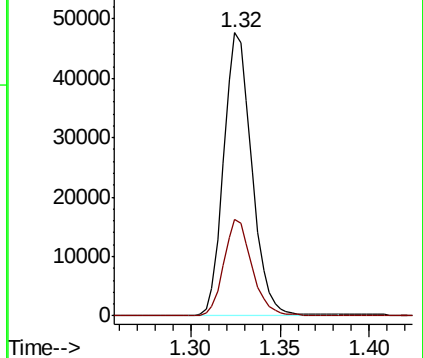
50 100

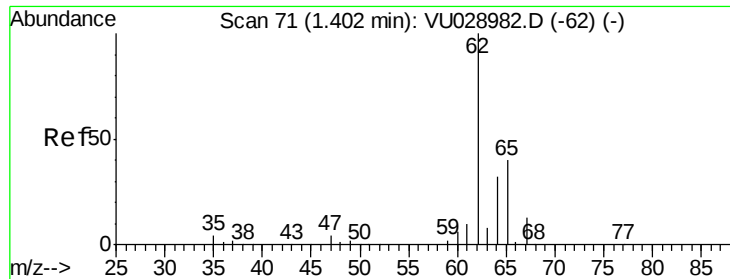
52 33.9 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.854 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

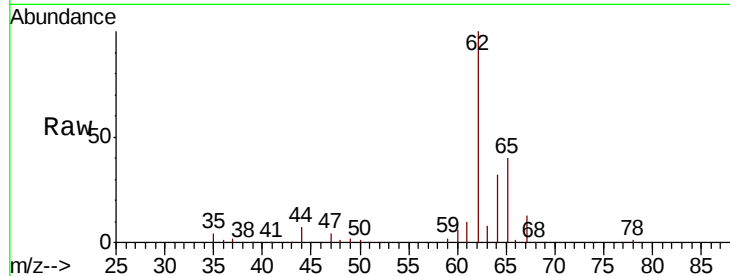
VSTD00551

Tot Ion: 62 Resp: 53702

Ion Ratio Lower Upper

62 100

64 31.7 21.6 40.2



Abundance Ion 62.00 (61.70 to 62.70): VU028982.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VU028982.D (-62) (-)

1.40

50000

40000

30000

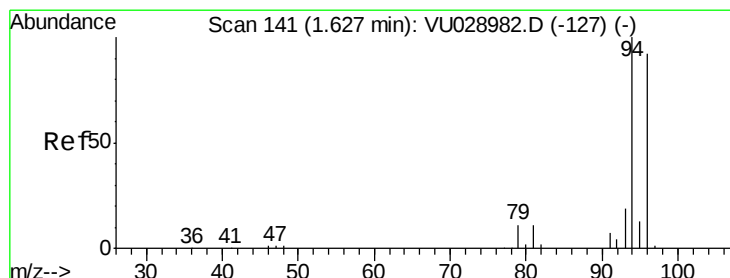
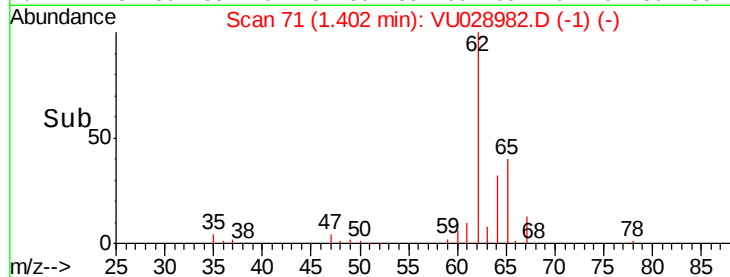
20000

10000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 5.012 ug/L

RT: 1.63 min Scan# 141

Delta R.T. 0.00 min

Lab File: VU028982.D

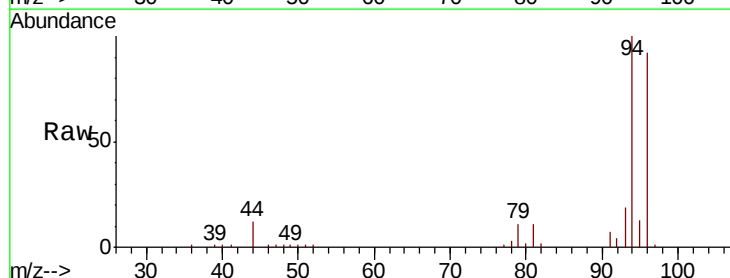
Acq: 02 Jan 2019 09:45

Tgt Ion: 94 Resp: 25670

Ion Ratio Lower Upper

94 100

96 91.8 66.0 122.6



Abundance Ion 94.00 (93.70 to 94.70): VU028982.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VU028982.D (-127) (-)

1.63

25000

20000

15000

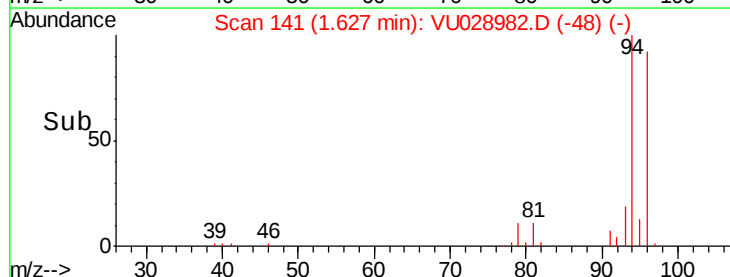
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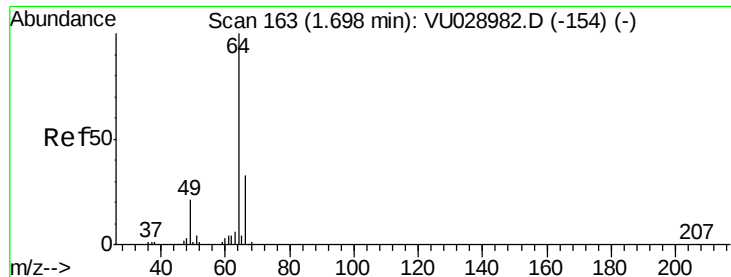
5000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 4.922 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

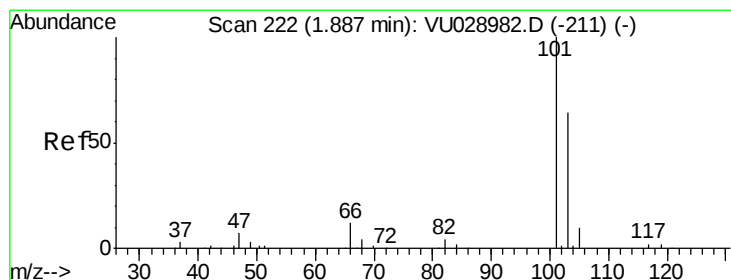
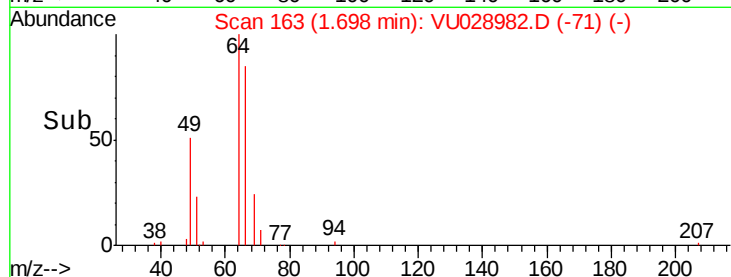
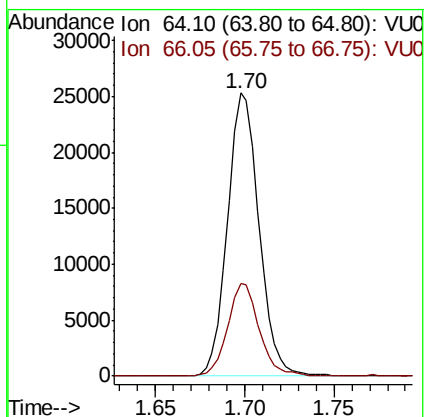
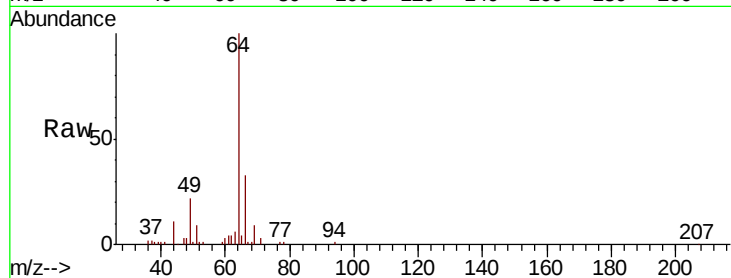
VSTD00551

Tot Ion: 64 Resp: 31075

Ion Ratio Lower Upper

64 100

66 32.9 22.6 42.0



#9

Trichlorofluoromethane

Concen: 4.681 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU028982.D

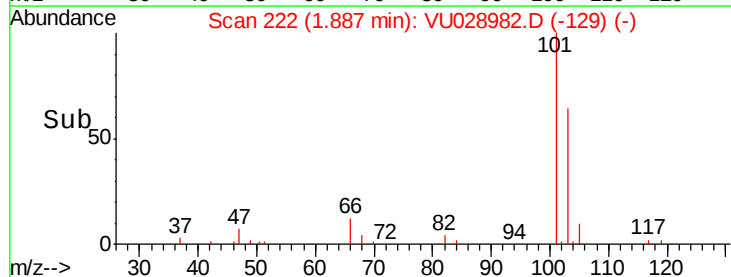
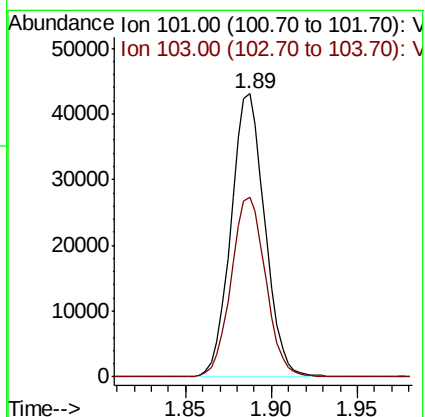
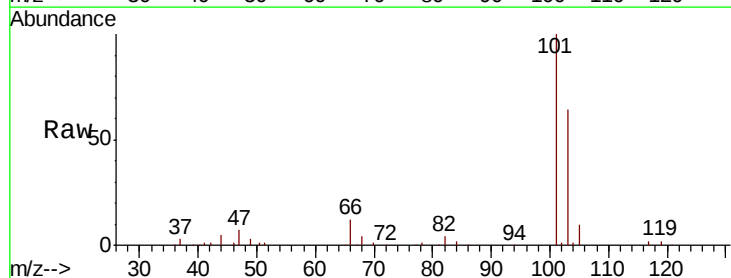
Acq: 02 Jan 2019 09:45

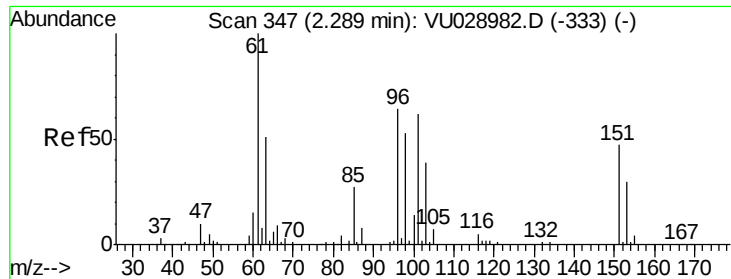
Tgt Ion: 101 Resp: 59219

Ion Ratio Lower Upper

101 100

103 64.6 51.2 76.8





#10

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

Concen: 4.694 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

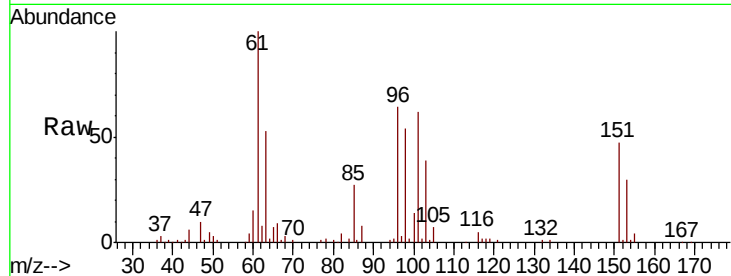
Tot Ion:101 Resp: 38322

Ion Ratio Lower Upper

101 100

85 43.1 33.8 50.6

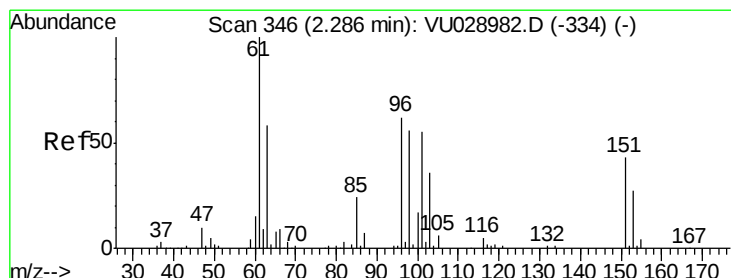
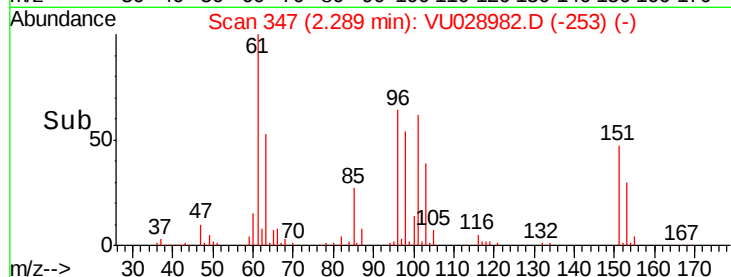
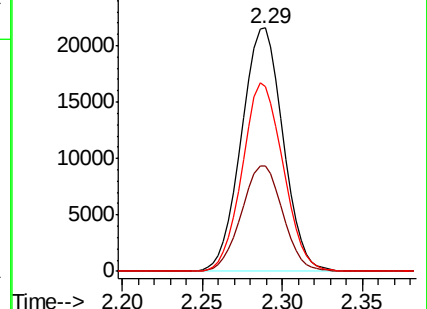
151 76.1 60.9 91.3



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: 4.673 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

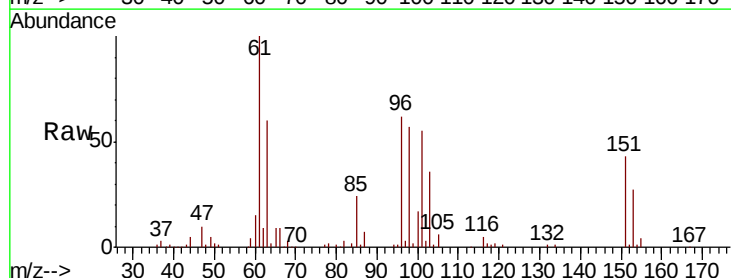
Tgt Ion: 96 Resp: 37092

Ion Ratio Lower Upper

96 100

61 162.0 110.5 205.3

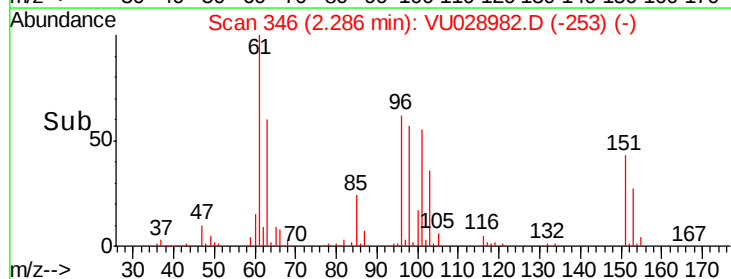
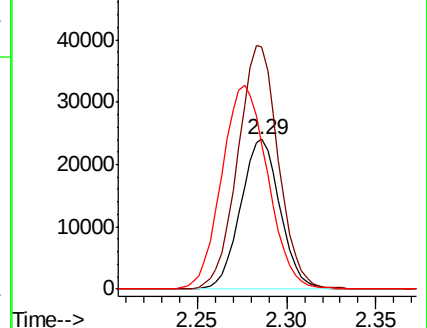
63 97.2 67.6 125.6

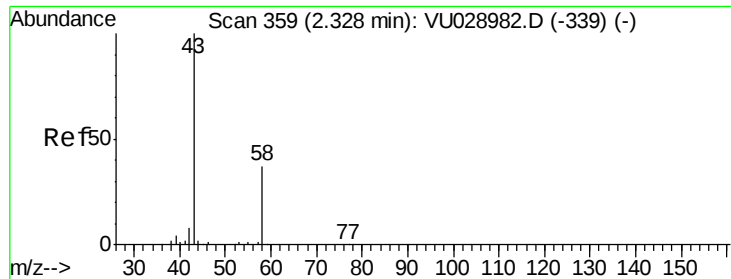


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.945 ug/L

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

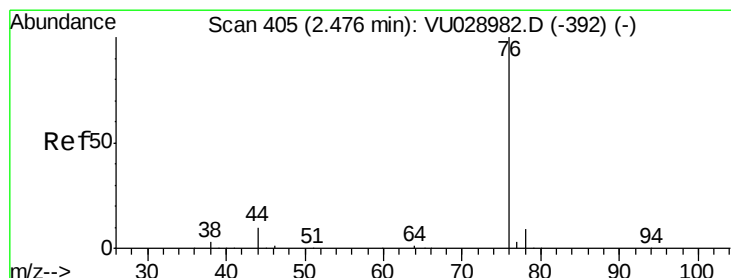
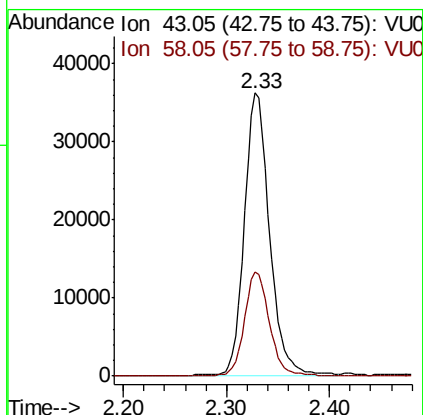
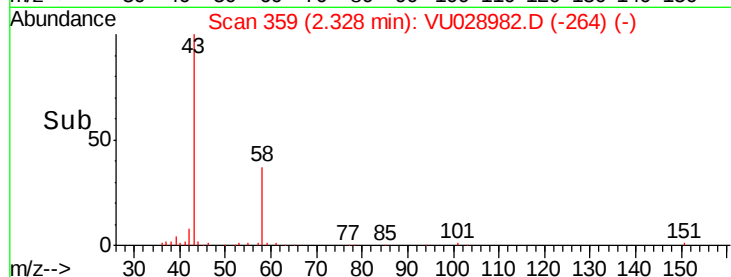
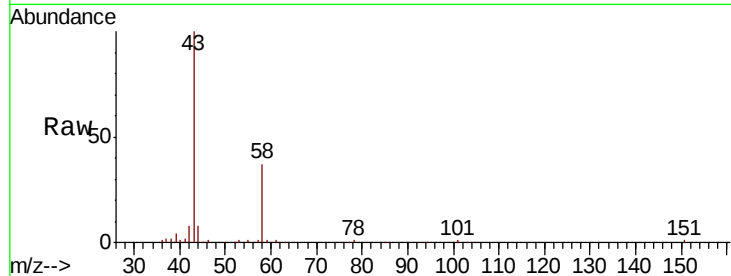
VSTD00551

Tot Ion: 43 Resp: 61223

Ion Ratio Lower Upper

43 100

58 36.7 0.0 71.8



#14

Carbon disulfide

Concen: 4.878 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028982.D

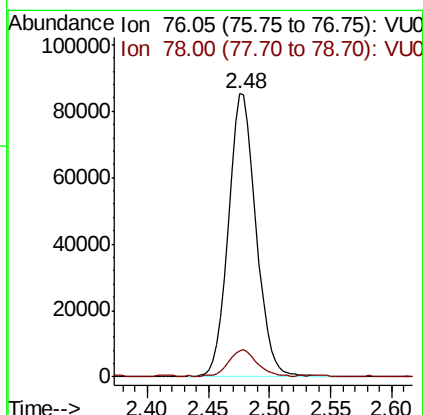
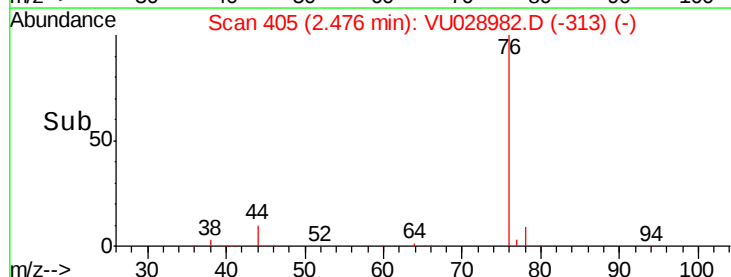
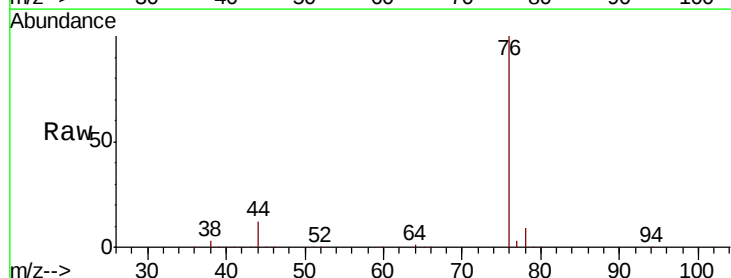
Acq: 02 Jan 2019 09:45

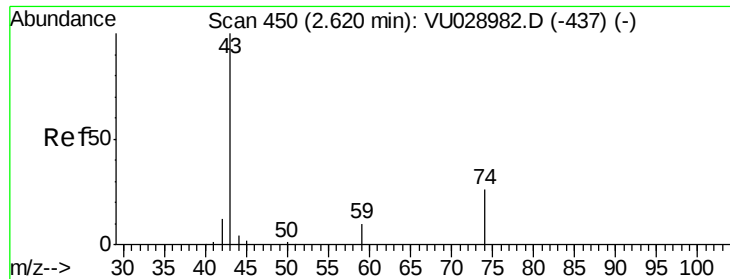
Tgt Ion: 76 Resp: 135301

Ion Ratio Lower Upper

76 100

78 9.4 7.7 11.5

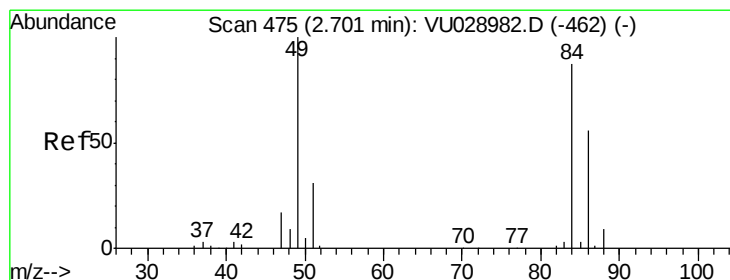
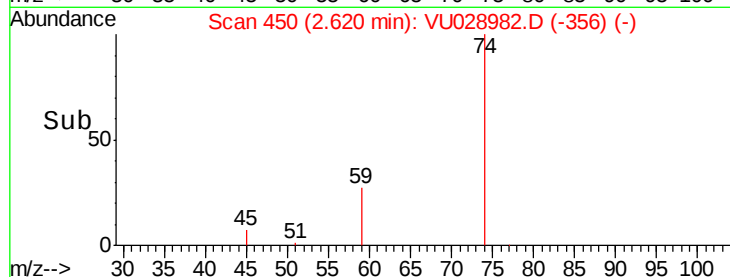
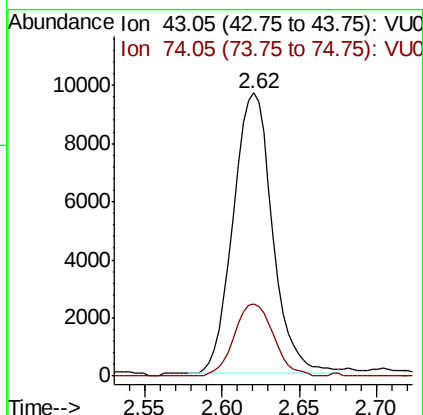
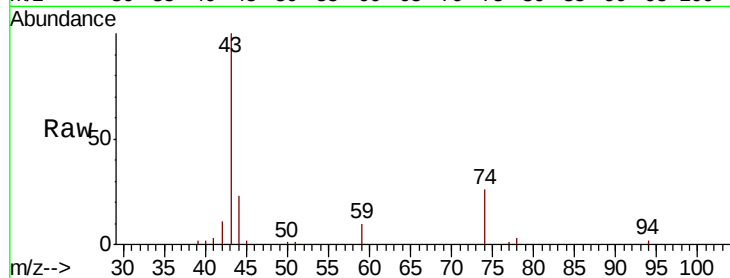




#15
Methvl Acetate
Concen: 4.643 ug/L
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

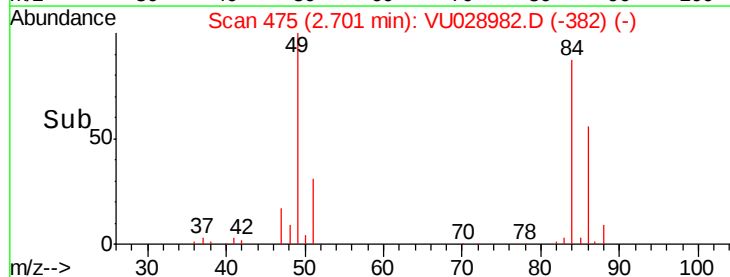
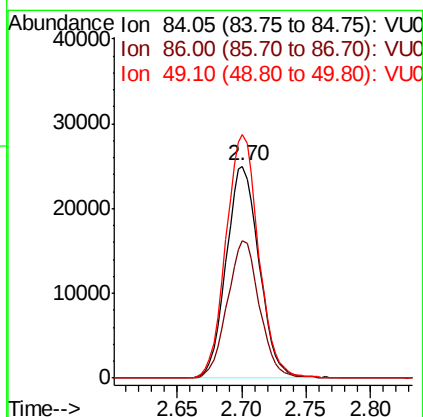
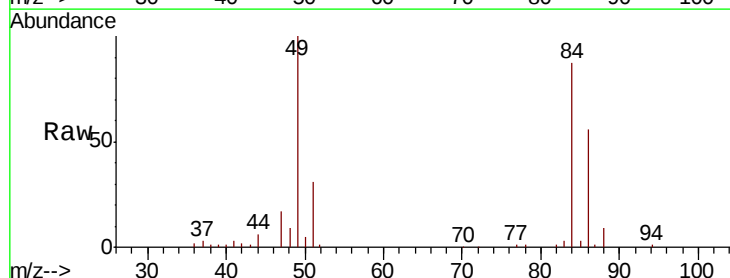
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

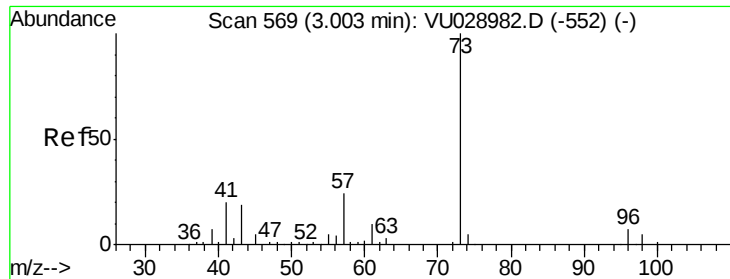
Tot Ion: 43 Resp: 17019
Ion Ratio Lower Upper
43 100
74 25.8 20.6 30.8



#16
Methylene chloride
Concen: 3.901 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

Tgt Ion: 84 Resp: 44333
Ion Ratio Lower Upper
84 100
86 64.7 45.6 84.6
49 115.0 79.7 148.1

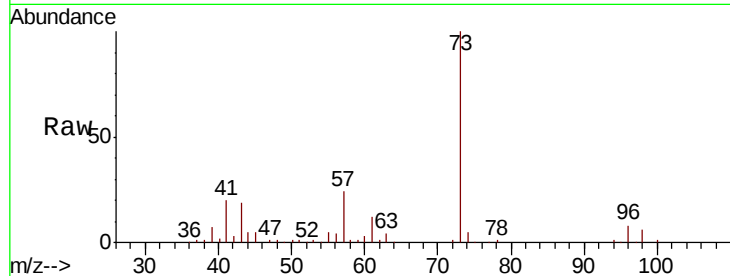




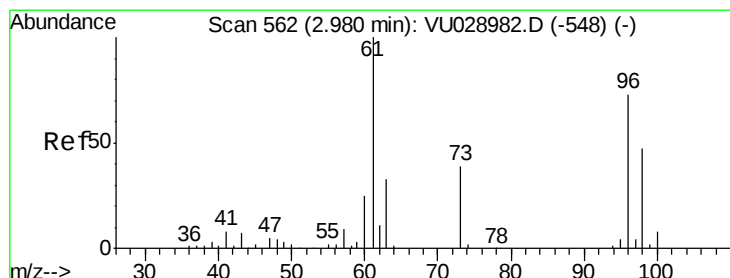
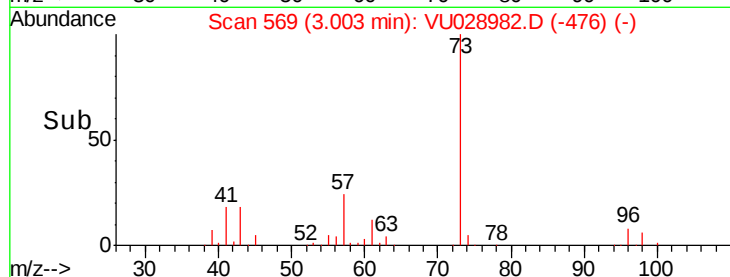
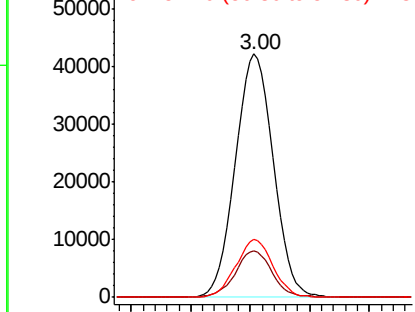
#17
Methvl tert-butvl Ether
Concen: 4.794 ug/L
RT: 3.00 min Scan# 569
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

Instrument :
MSVOA_U
ClientSampled :
VSTD00551

Tot Ion: 73 Resp: 93439
Ion Ratio Lower Upper
73 100
43 18.5 13.8 20.8
57 23.1 17.5 26.3

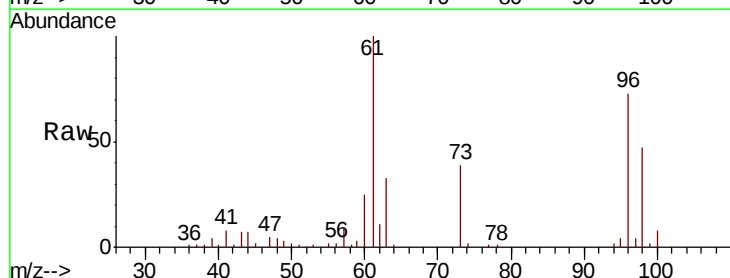


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

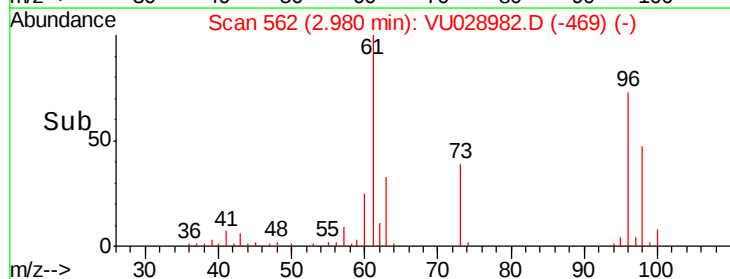
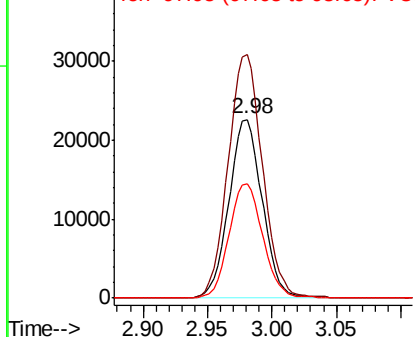


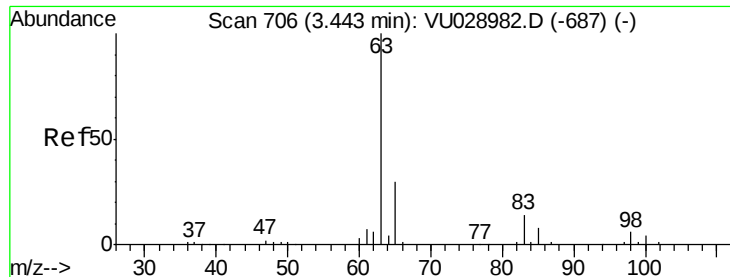
#18
trans-1,2-Dichloroethene
Concen: 4.663 ug/L
RT: 2.98 min Scan# 562
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

Tgt Ion: 96 Resp: 40639
Ion Ratio Lower Upper
96 100
61 136.2 96.6 179.4
98 63.7 46.0 85.4



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 5.098 ug/L

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

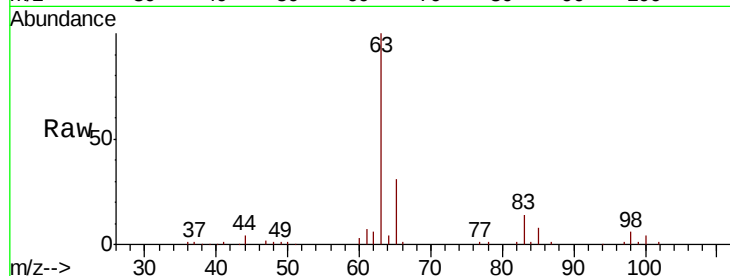
Tot Ion: 63 Resp: 75427

Ion Ratio Lower Upper

63 100

65 30.6 21.8 40.6

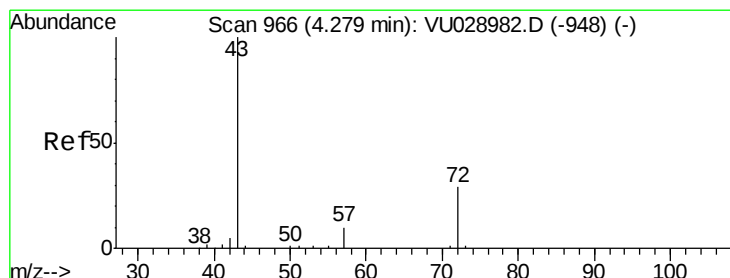
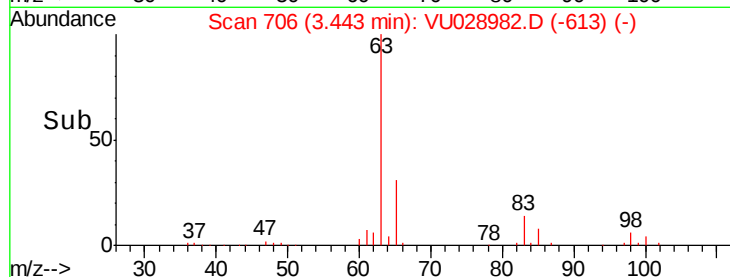
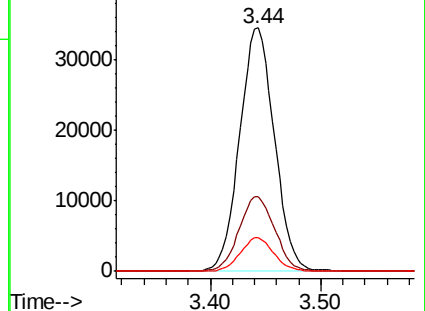
83 13.7 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 51.794 ug/L

RT: 4.28 min Scan# 966

Delta R.T. 0.00 min

Lab File: VU028982.D

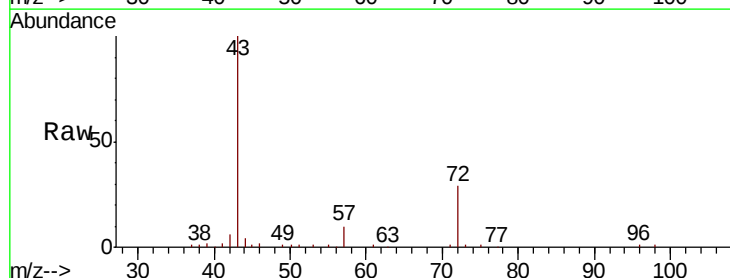
Acq: 02 Jan 2019 09:45

Tgt Ion: 43 Resp: 96928

Ion Ratio Lower Upper

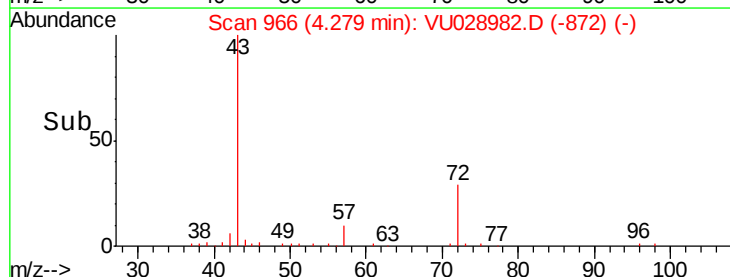
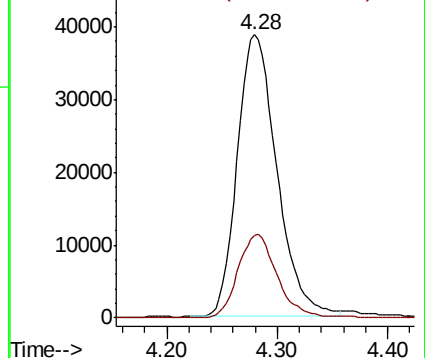
43 100

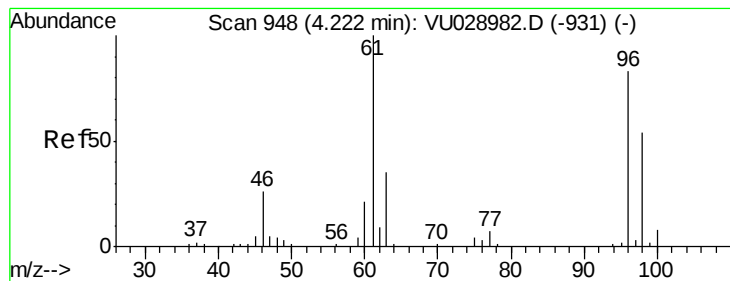
72 29.5 15.2 45.5



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



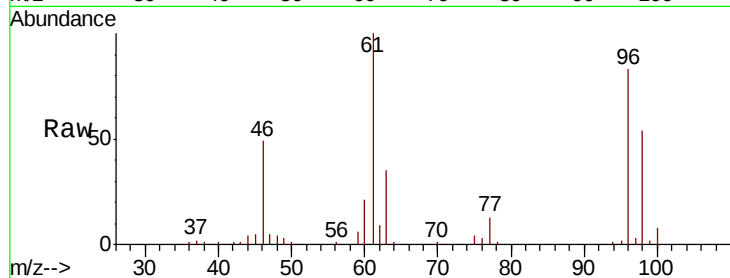


#22

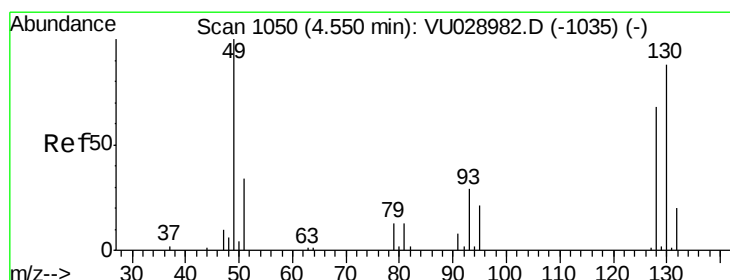
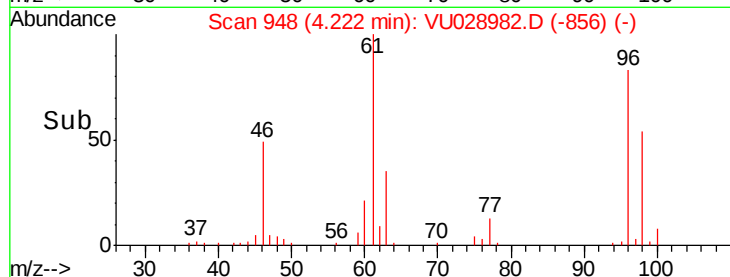
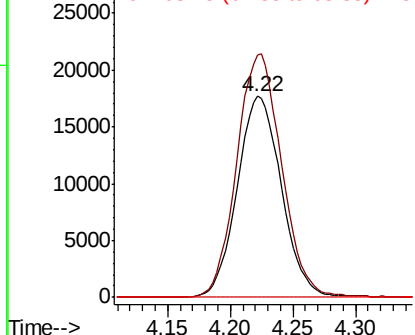
cis-1,2-Dichloroethene
 Concen: 4.795 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tot Ion: 96 Resp: 43233
 Ion Ratio Lower Upper
 96 100
 61 121.0 84.7 157.3
 68 0.0 0.0 0.0



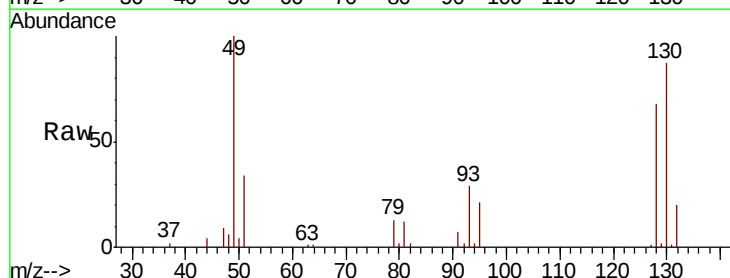
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



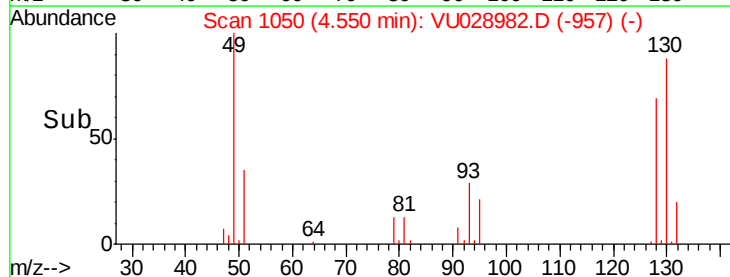
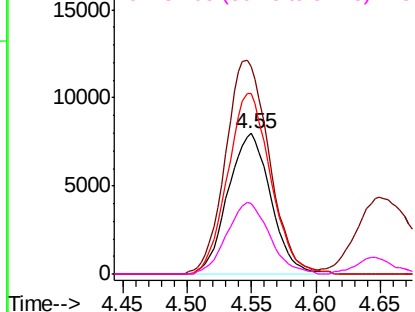
#23

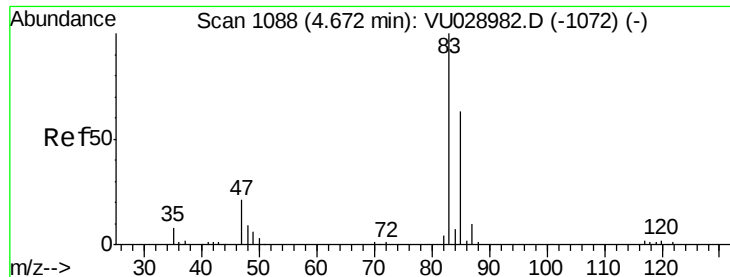
Bromochloromethane
 Concen: 5.043 ug/L
 RT: 4.55 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Tgt Ion: 128 Resp: 18449
 Ion Ratio Lower Upper
 128 100
 49 147.9 109.3 202.9
 130 128.7 88.7 164.7
 51 50.3 38.8 58.2



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

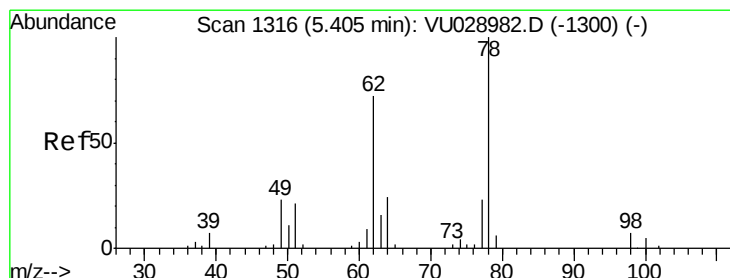
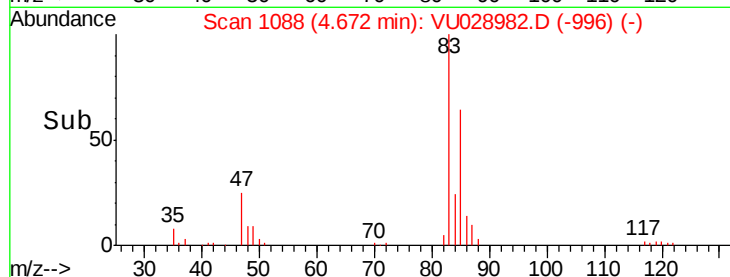
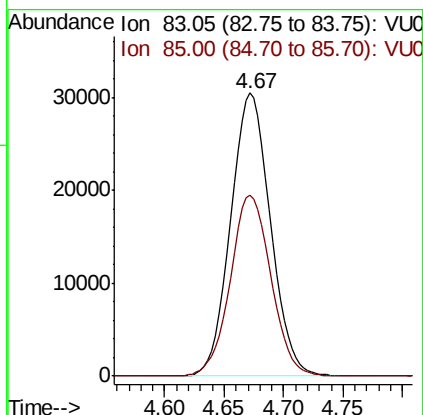
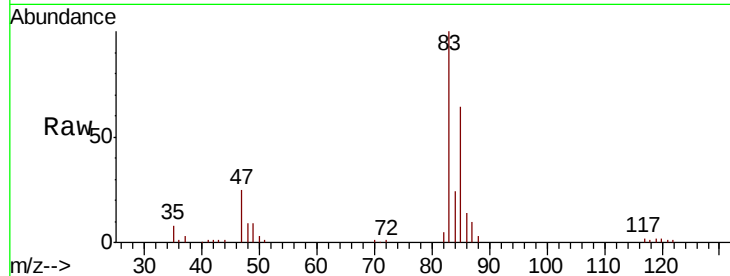




#25
Chloroform
Concen: 5.023 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

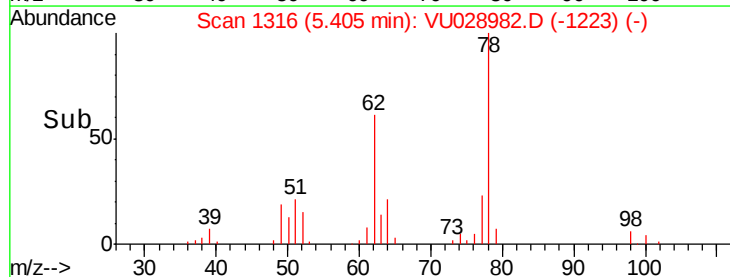
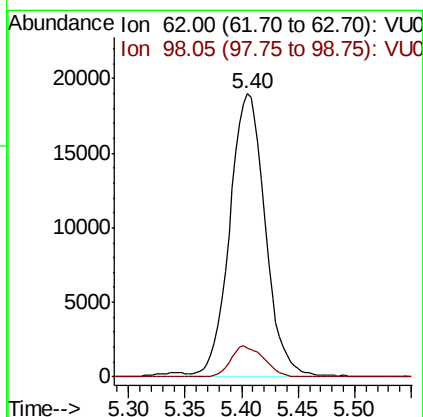
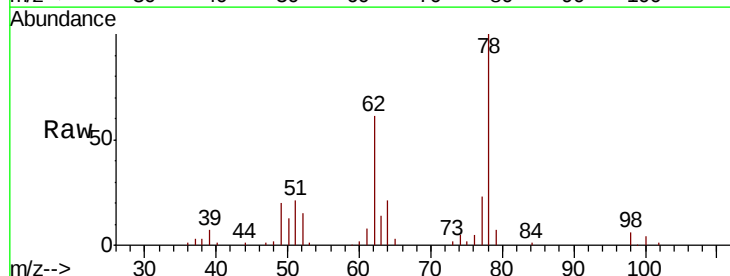
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

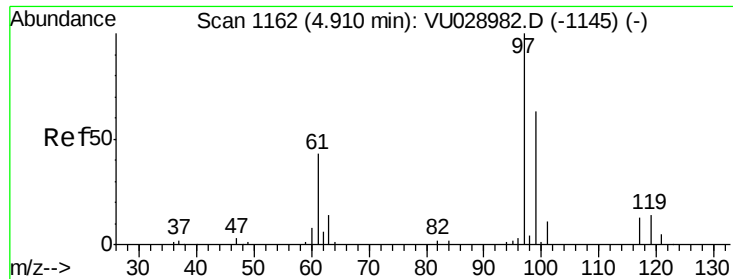
Tot Ion: 83 Resp: 70614
Ion Ratio Lower Upper
83 100
85 63.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 5.001 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

Tgt Ion: 62 Resp: 41589
Ion Ratio Lower Upper
62 100
98 10.2 8.2 12.2

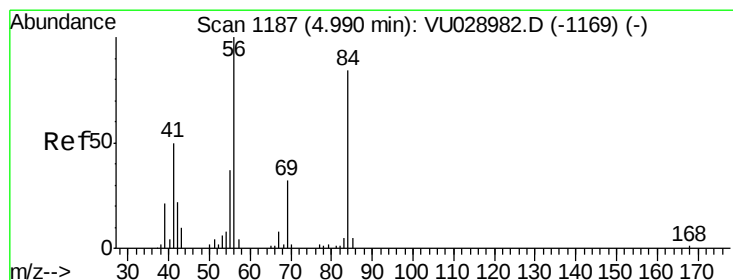
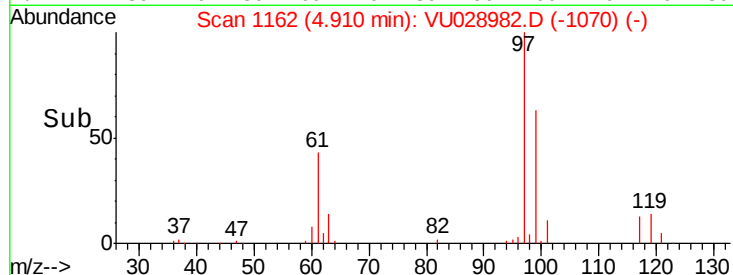
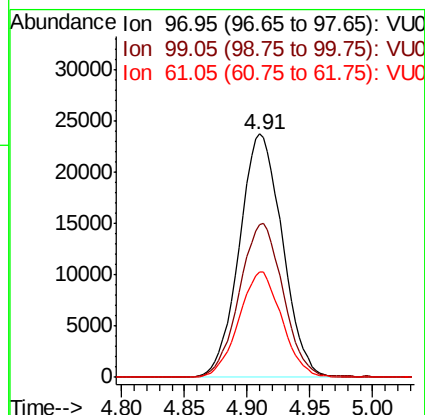
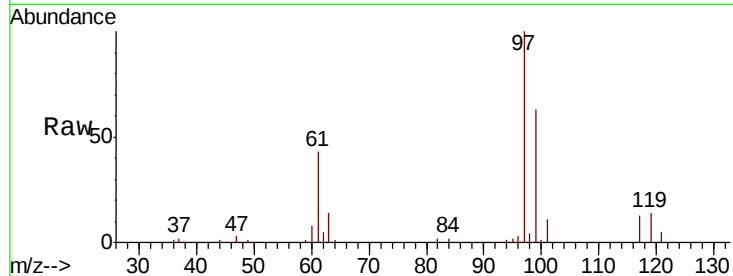




#29
 1,1,1-Trichloroethane
 Concen: 4.914 ug/L
 RT: 4.91 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

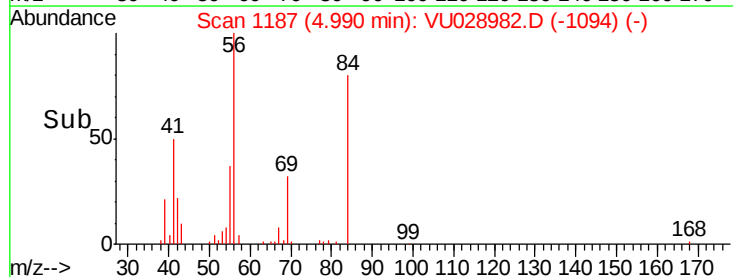
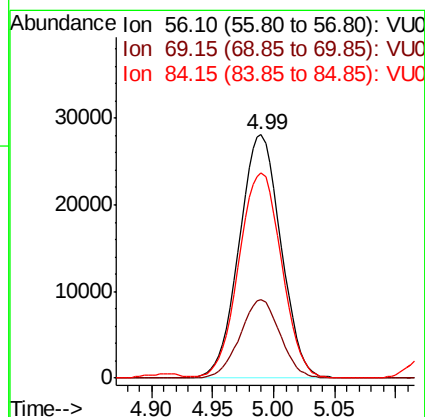
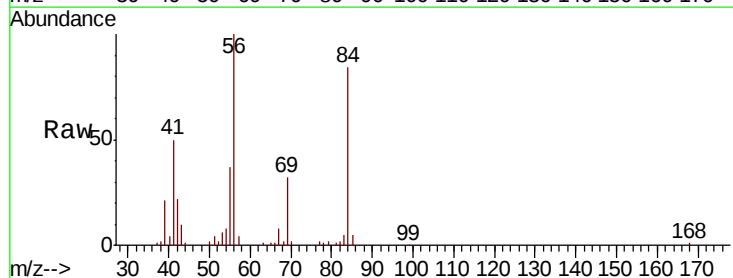
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

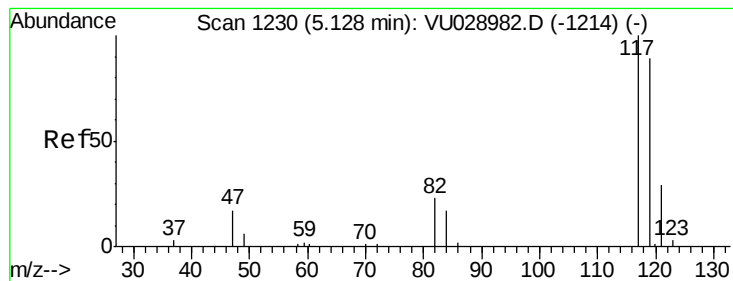
Tot Ion: 97 Resp: 56487
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.6 77.4
 61 43.2 34.1 51.1



#30
 Cyclohexane
 Concen: 4.823 ug/L
 RT: 4.99 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Tgt Ion: 56 Resp: 66424
 Ion Ratio Lower Upper
 56 100
 69 31.0 24.8 37.2
 84 86.7 69.1 103.7





#31

Carbon tetrachloride

Concen: 5.069 ug/L

RT: 5.13 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

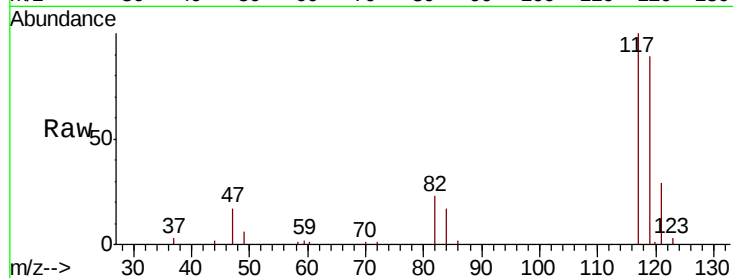
VSTD00551

Tot Ion:117 Resp: 46394

Ion Ratio Lower Upper

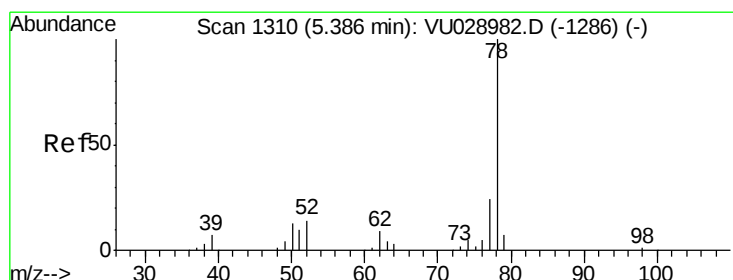
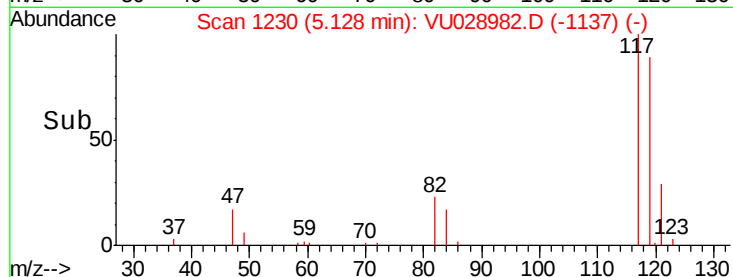
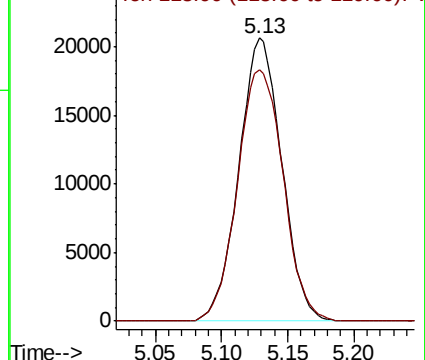
117 100

119 94.8 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.900 ug/L

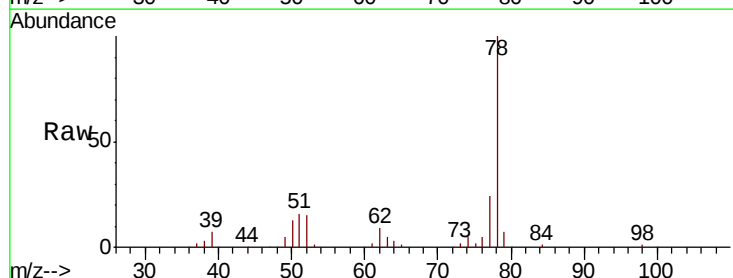
RT: 5.39 min Scan# 1310

Delta R.T. 0.00 min

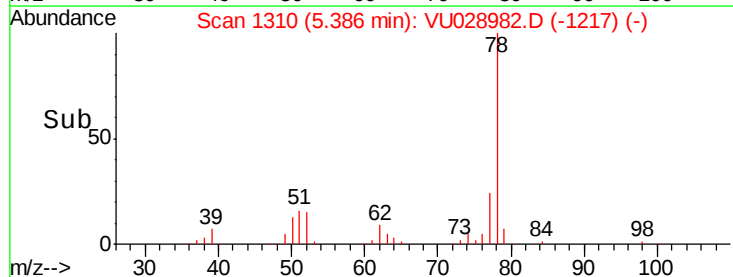
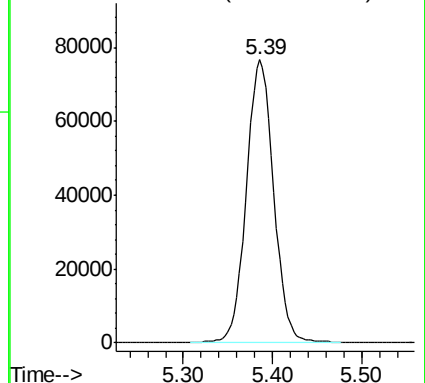
Lab File: VU028982.D

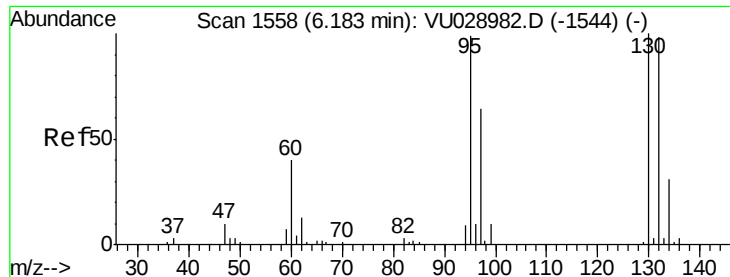
Acq: 02 Jan 2019 09:45

Tgt Ion: 78 Resp: 163971



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.957 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

Tot Ion: 95 Resp: 42419

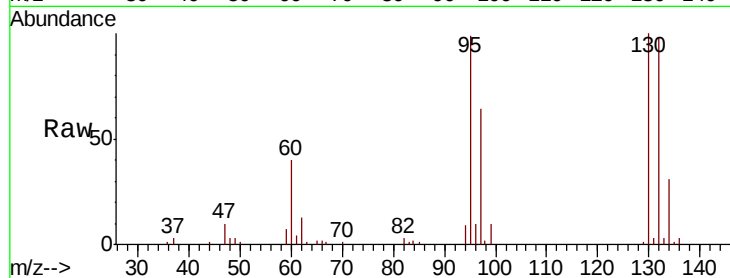
Ion Ratio Lower Upper

95 100

97 64.9 45.4 84.2

132 99.1 70.8 131.6

130 101.0 70.7 131.3

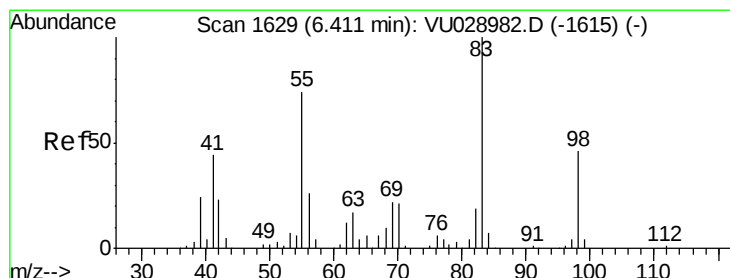
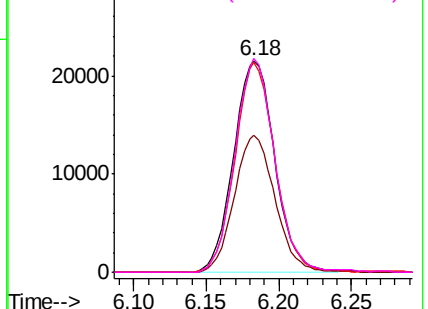
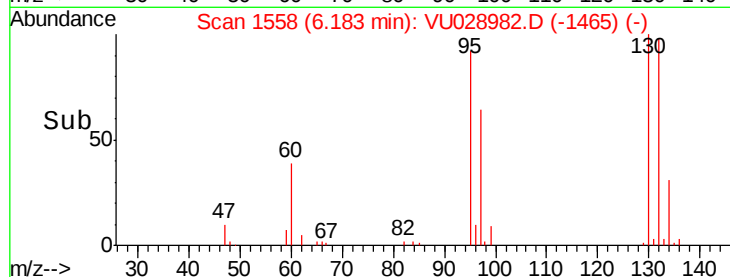


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.797 ug/L

RT: 6.41 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

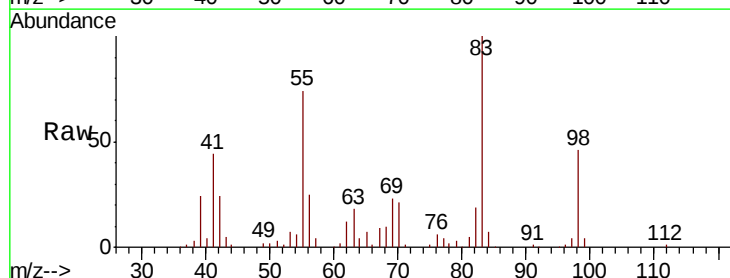
Tgt Ion: 83 Resp: 70512

Ion Ratio Lower Upper

83 100

55 73.5 59.8 89.6

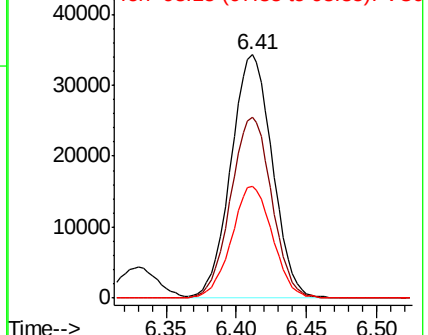
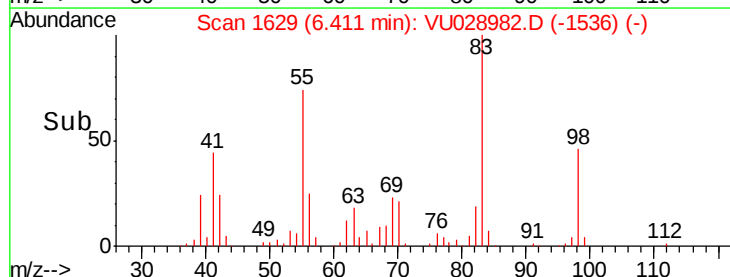
98 45.4 37.0 55.6

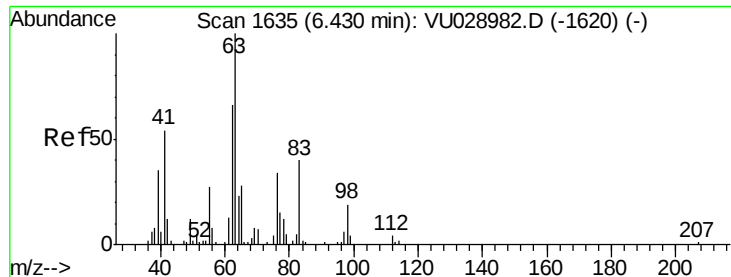


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

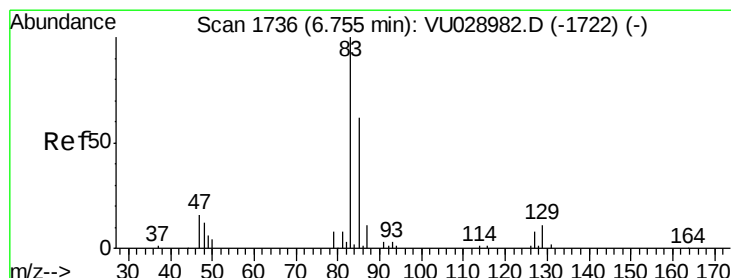
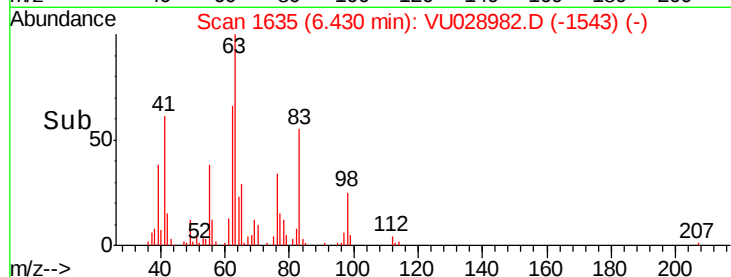
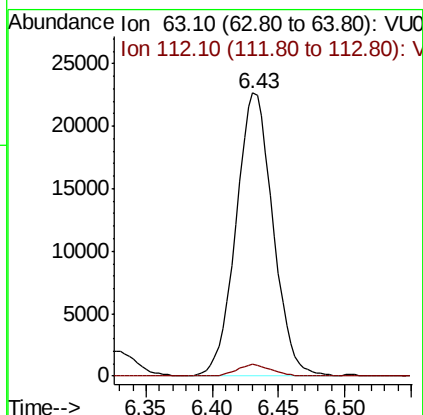
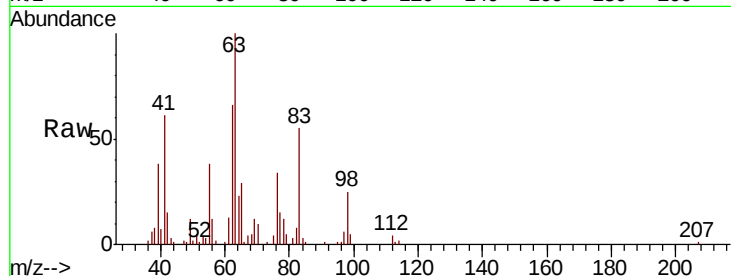




#37
 1,2-Dichloropropane
 Concen: 5.157 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

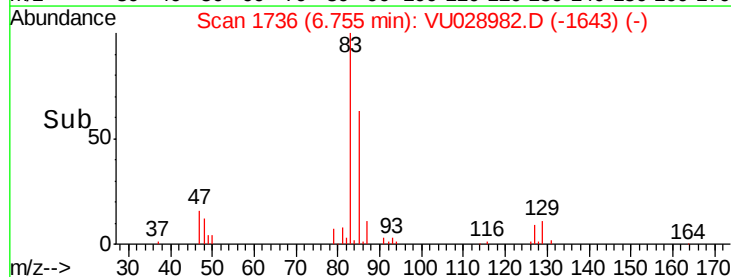
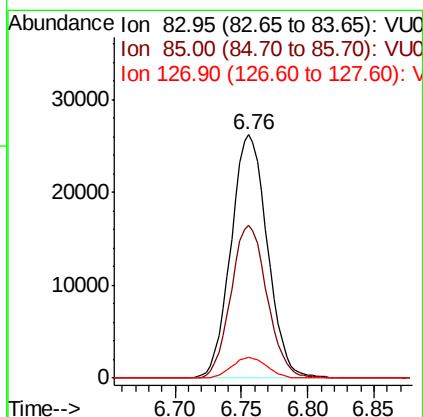
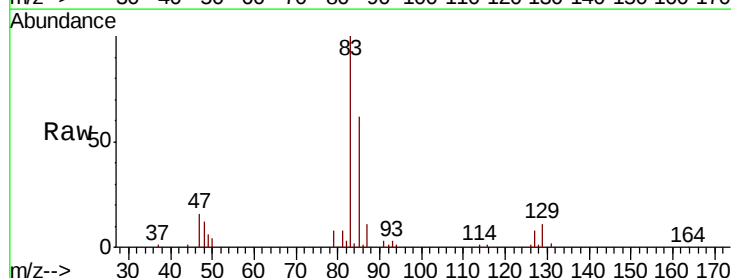
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

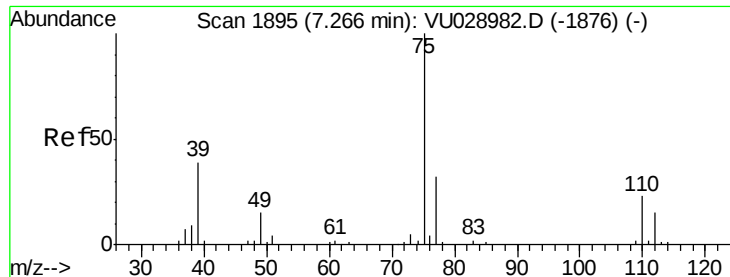
Tot Ion: 63 Resp: 43968
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.4



#38
 Bromodichloromethane
 Concen: 5.204 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Tgt Ion: 83 Resp: 49955
 Ion Ratio Lower Upper
 83 100
 85 62.5 45.1 83.9
 127 8.4 6.8 10.2

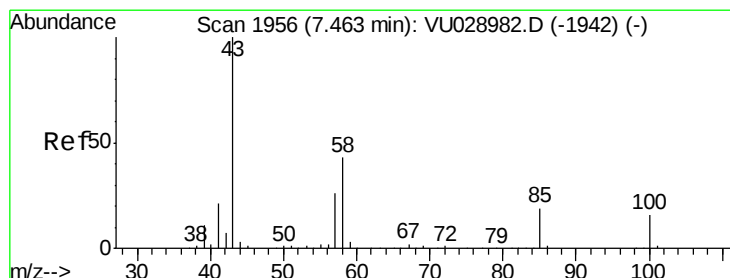
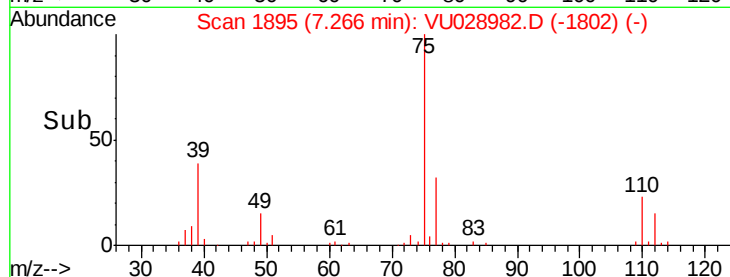
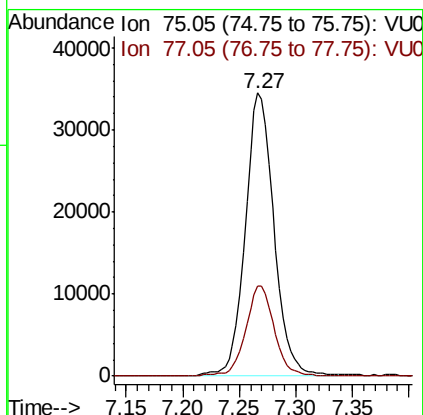
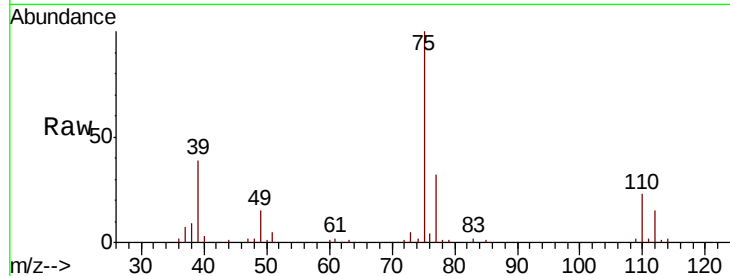




#39
 cis-1,3-Dichloropropene
 Concen: 5.008 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

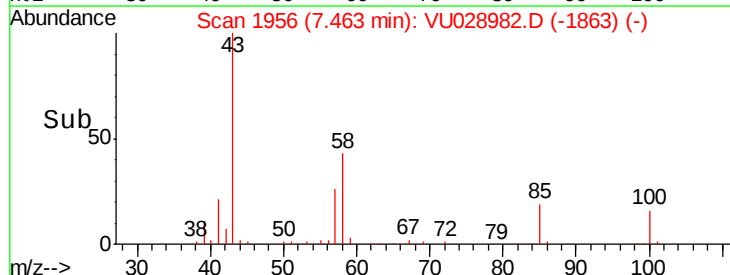
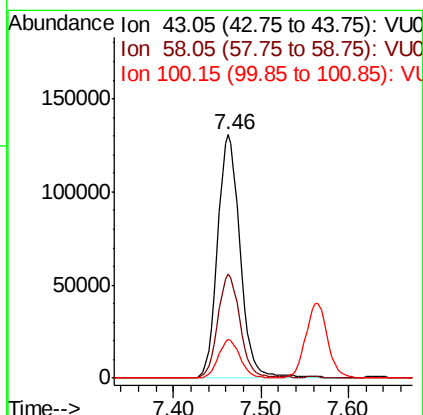
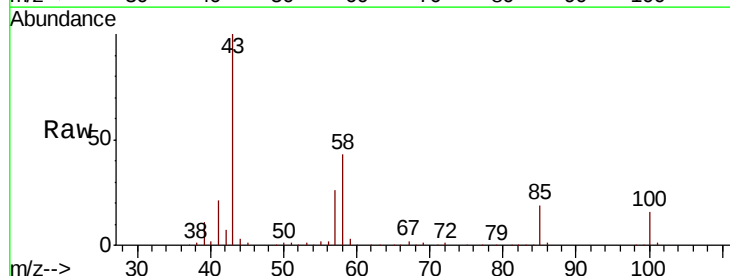
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

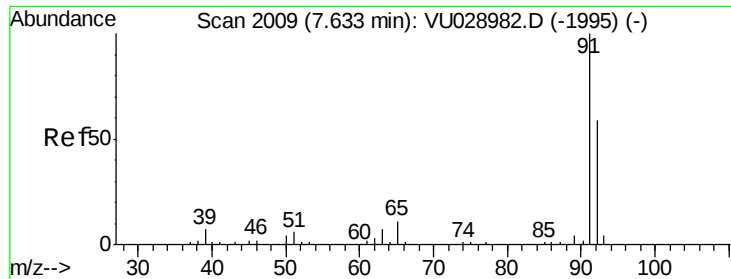
Tot Ion: 75 Resp: 61220
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.5 39.9



#40
 4-Methyl-2-pentanone
 Concen: 51.658 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Tgt Ion: 43 Resp: 234358
 Ion Ratio Lower Upper
 43 100
 58 42.2 34.6 51.8
 100 15.3 13.4 20.0





#42

Toluene

Concen: 4.780 ug/L

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampled :

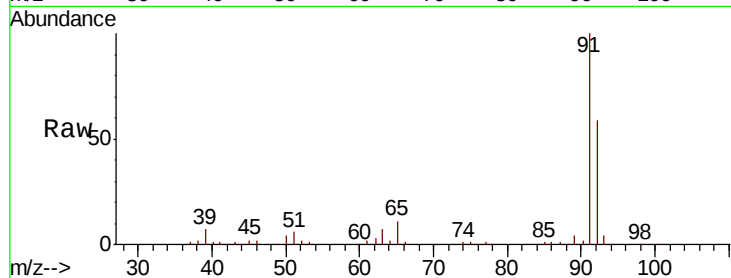
VSTD00551

Tot Ion: 91 Resp: 171239

Ion Ratio Lower Upper

91 100

92 58.8 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.63

100000

80000

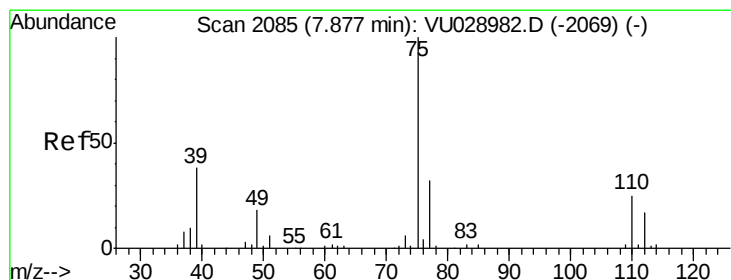
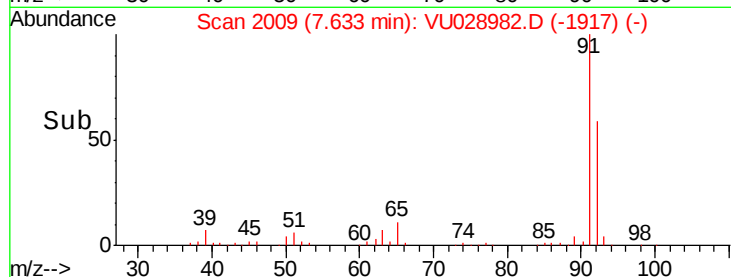
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.131 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU028982.D

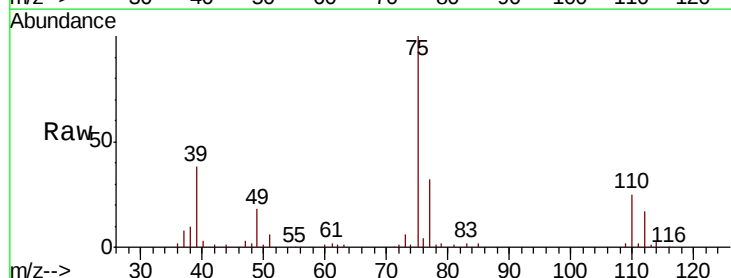
Acq: 02 Jan 2019 09:45

Tgt Ion: 75 Resp: 48884

Ion Ratio Lower Upper

75 100

77 32.4 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.88

30000

25000

20000

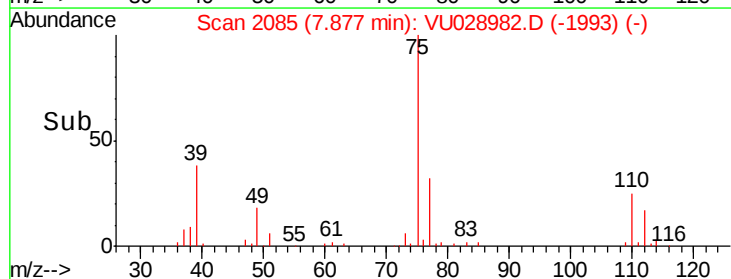
15000

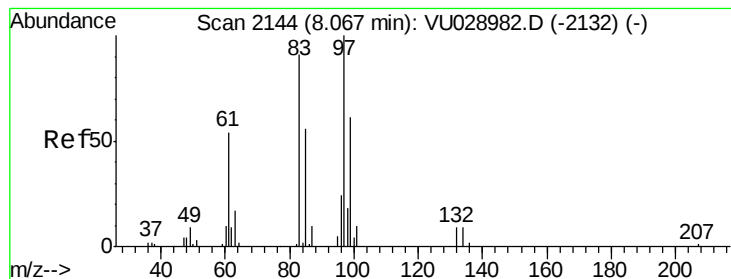
10000

5000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.935 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

Tot Ion: 97 Resp: 28637

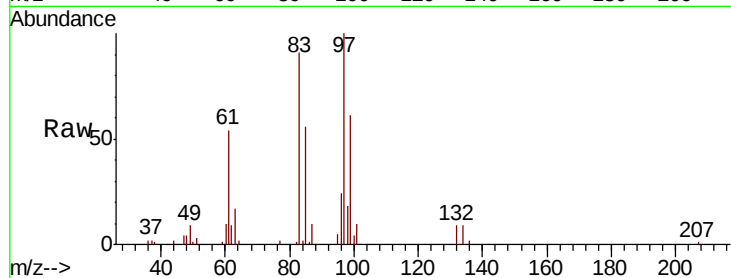
Ion Ratio Lower Upper

97 100

99 61.0 42.4 78.6

83 91.4 59.6 110.6

85 55.9 39.0 72.4

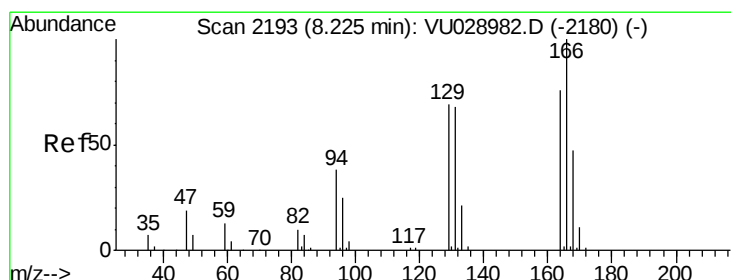
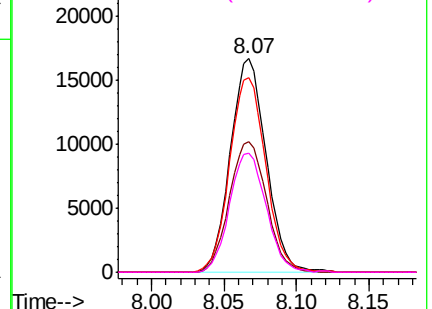
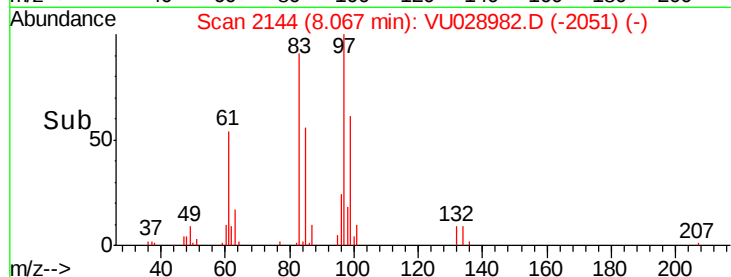


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.886 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Tgt Ion:164 Resp: 34629

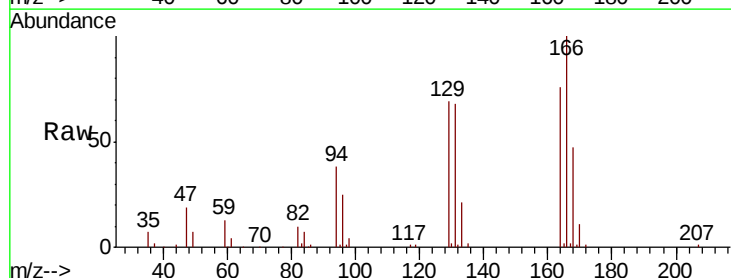
Ion Ratio Lower Upper

164 100

129 90.8 65.3 121.3

131 88.6 62.9 116.7

166 130.9 86.7 160.9

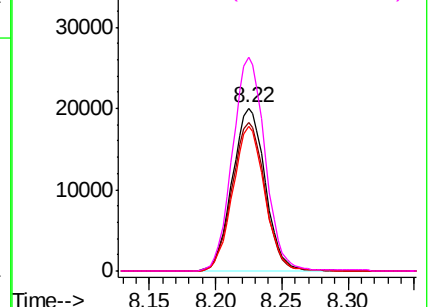
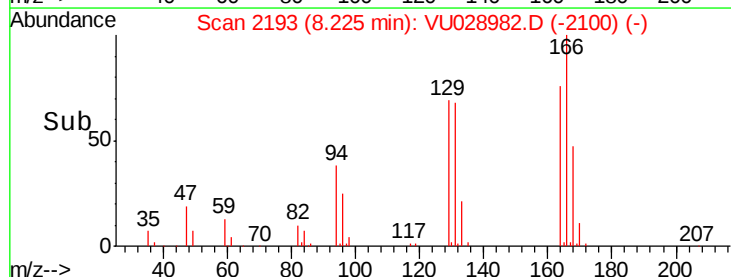


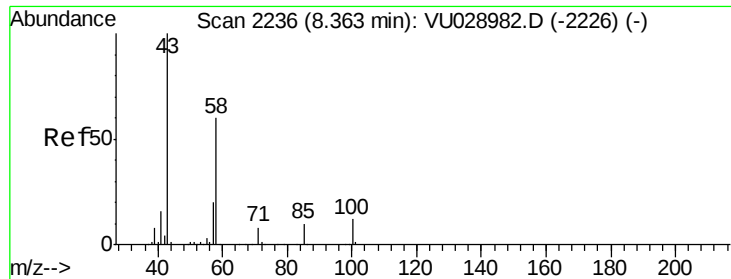
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

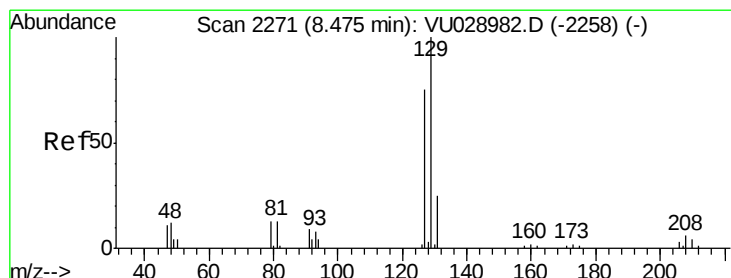
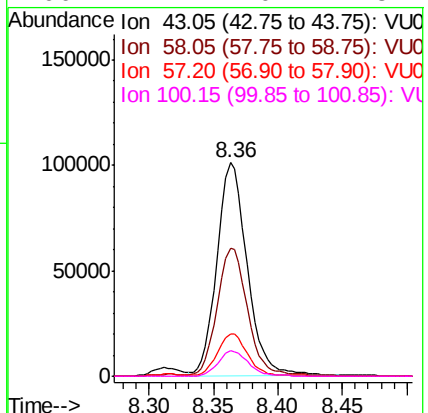
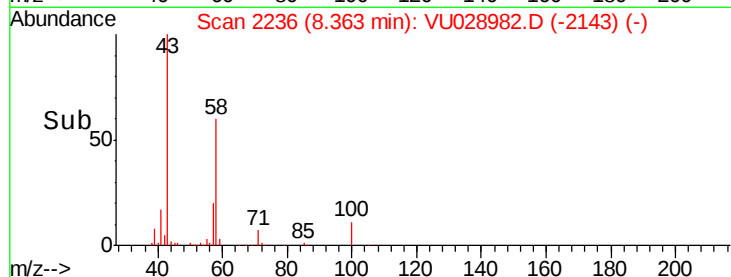
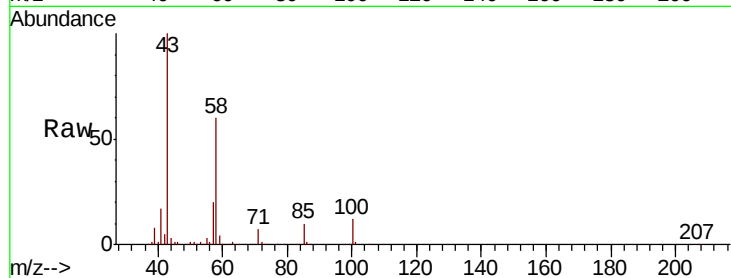




#48
2-Hexanone
Concen: 52.616 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

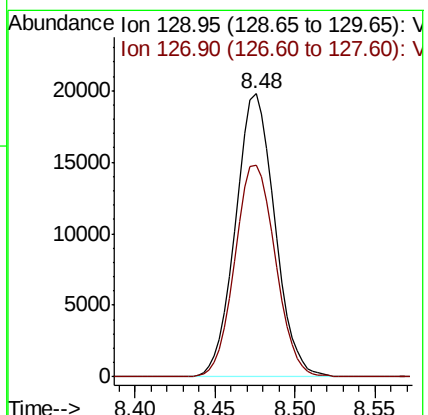
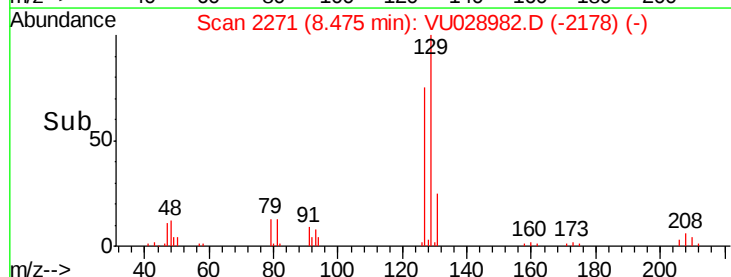
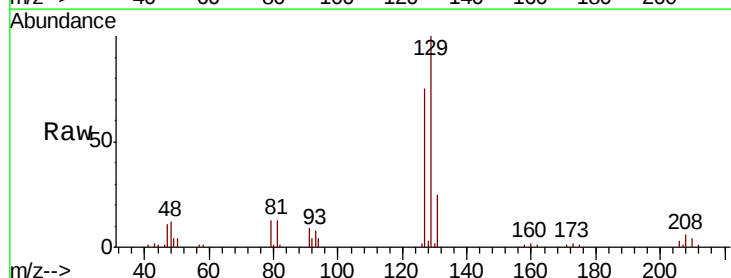
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

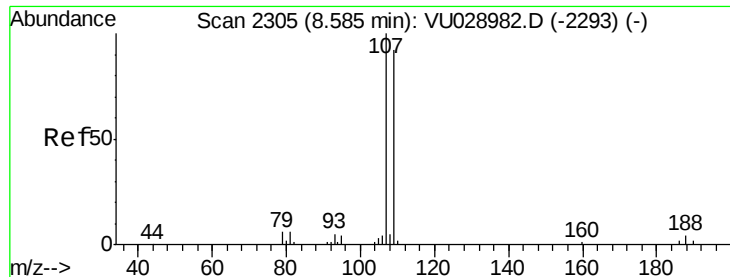
Tot Ion: 43 Resp: 165119
Ion Ratio Lower Upper
43 100
58 60.0 48.8 73.2
57 19.9 16.0 24.0
100 12.1 10.2 15.4



#49
Dibromochloromethane
Concen: 5.382 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

Tgt Ion: 129 Resp: 33155
Ion Ratio Lower Upper
129 100
127 74.9 54.4 101.0

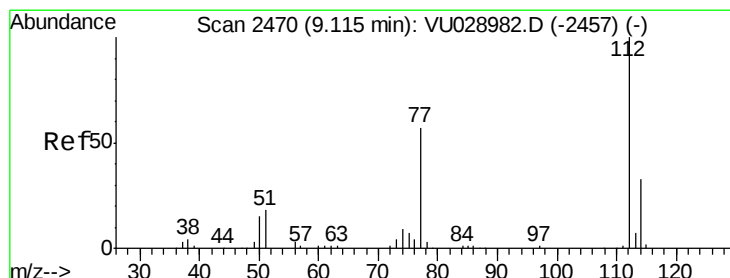
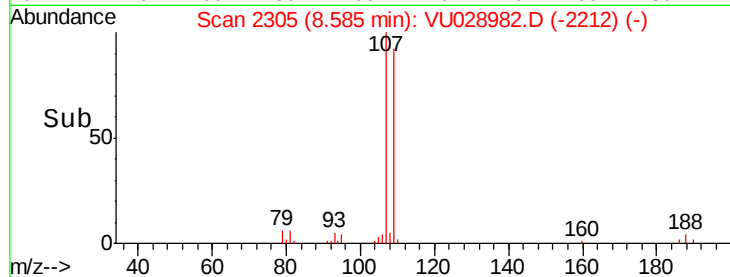
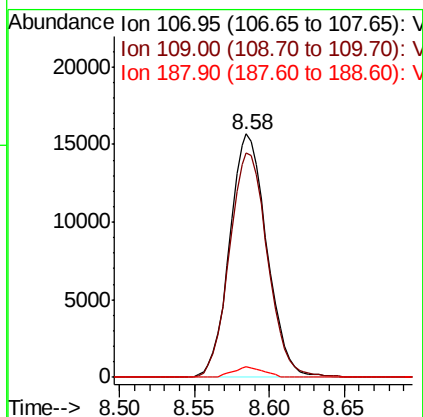
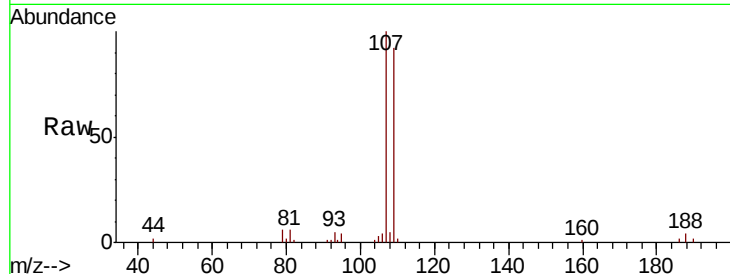




#50
 1,2-Dibromoethane
 Concen: 5.008 ug/L
 RT: 8.58 min Scan# 2305
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

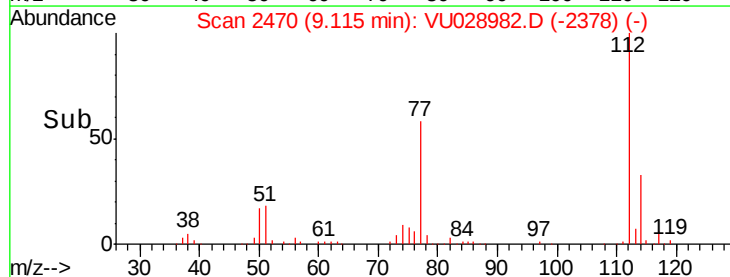
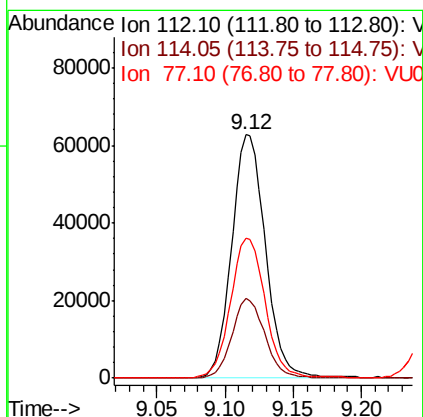
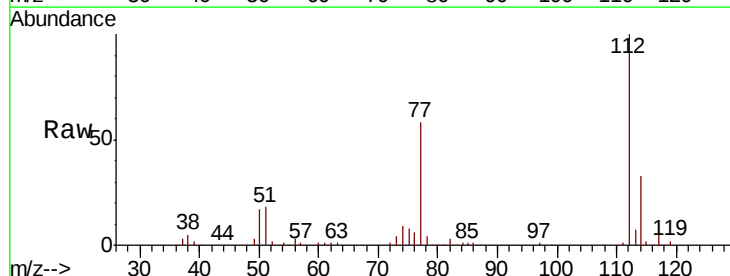
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

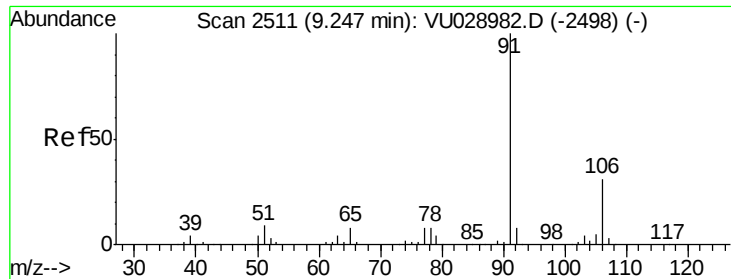
Tot Ion:107 Resp: 27181
 Ion Ratio Lower Upper
 107 100
 109 92.4 64.0 119.0
 188 4.2 3.0 4.4



#51
 Chlorobenzene
 Concen: 4.801 ug/L
 RT: 9.12 min Scan# 2470
 Delta R.T. -0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Tgt Ion:112 Resp: 107873
 Ion Ratio Lower Upper
 112 100
 114 32.6 22.2 41.2
 77 57.6 44.9 67.3

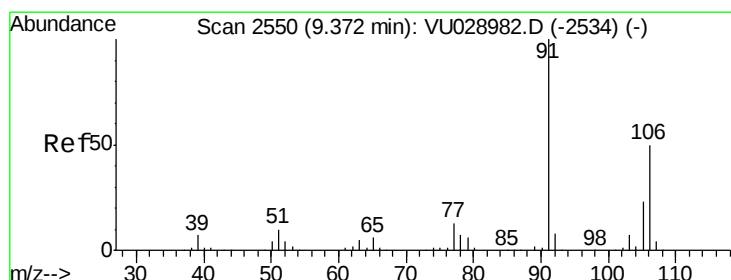
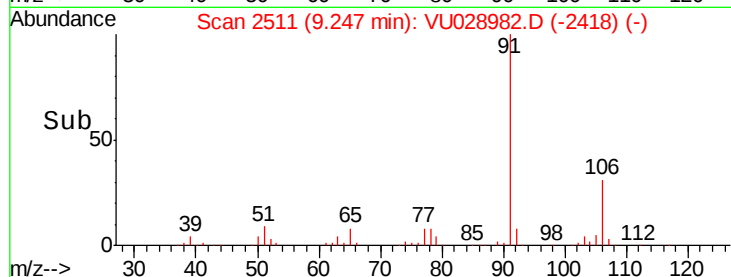
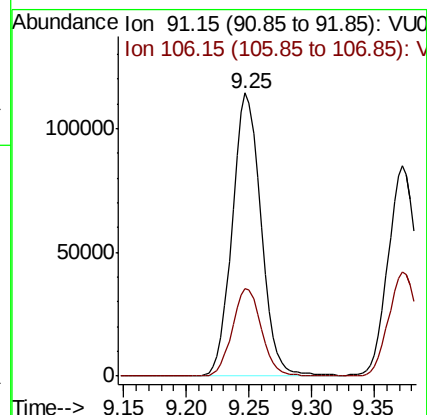
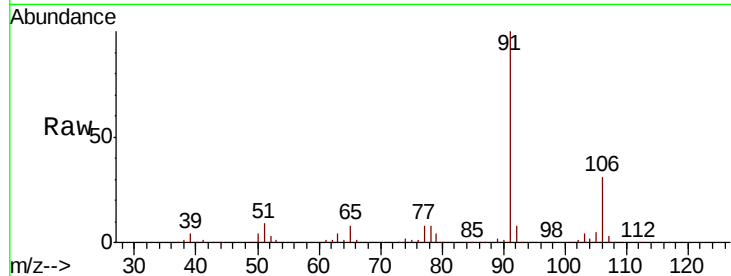




#52
Ethylbenzene
Concen: 4.806 ug/L
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

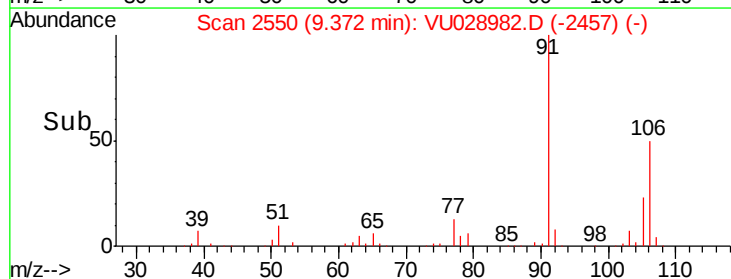
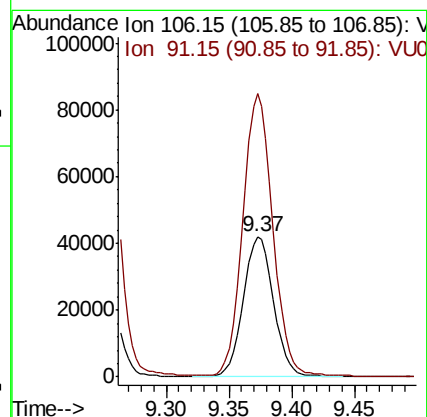
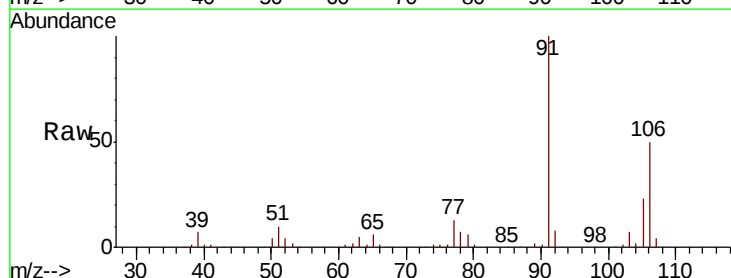
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

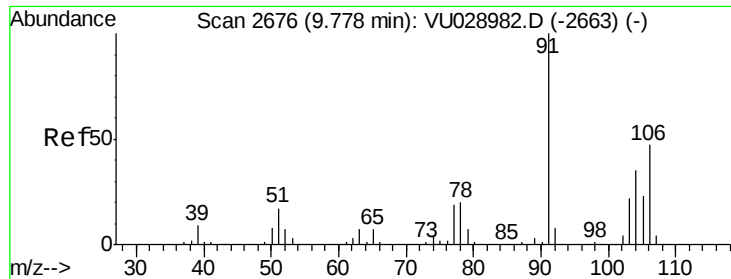
Tot Ion: 91 Resp: 182634
Ion Ratio Lower Upper
91 100
106 31.0 22.7 42.1



#53
m,p-xylene
Concen: 4.828 ug/L
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU028982.D
Acq: 02 Jan 2019 09:45

Tgt Ion: 106 Resp: 69819
Ion Ratio Lower Upper
106 100
91 201.8 138.5 257.1





#54

o-xylene

Concen: 4.877 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

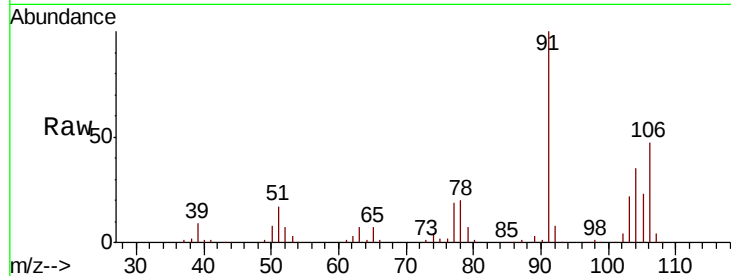
VSTD00551

Tot Ion:106 Resp: 68465

Ion Ratio Lower Upper

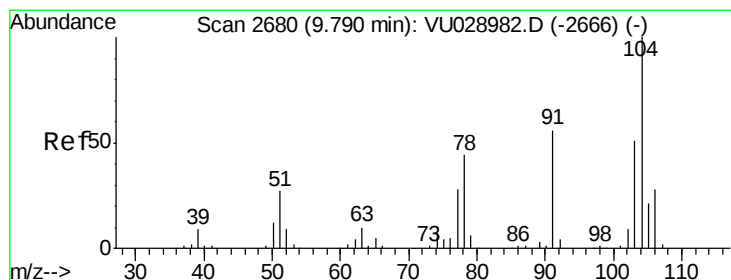
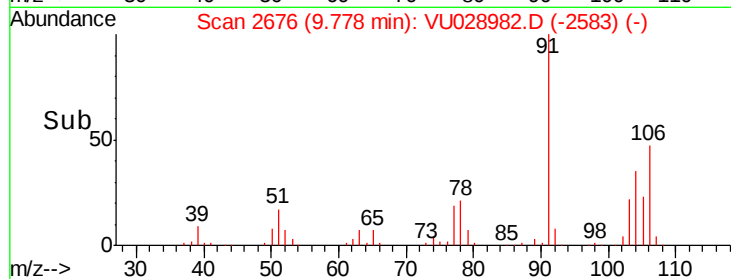
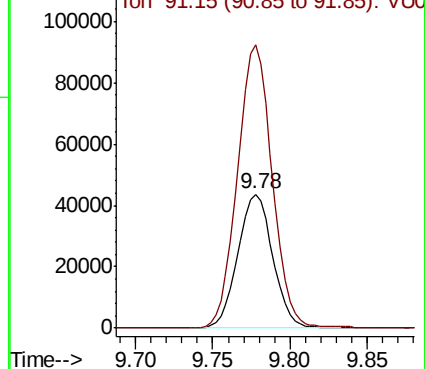
106 100

91 211.4 146.5 272.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.959 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU028982.D

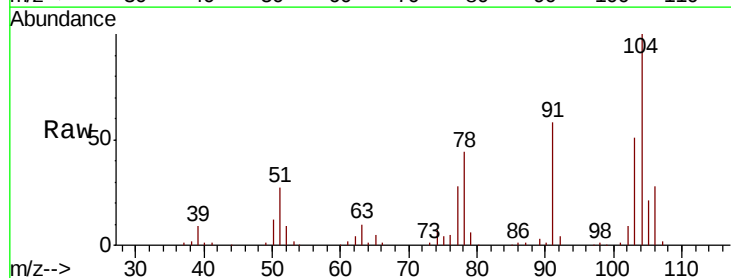
Acq: 02 Jan 2019 09:45

Tgt Ion:104 Resp: 115877

Ion Ratio Lower Upper

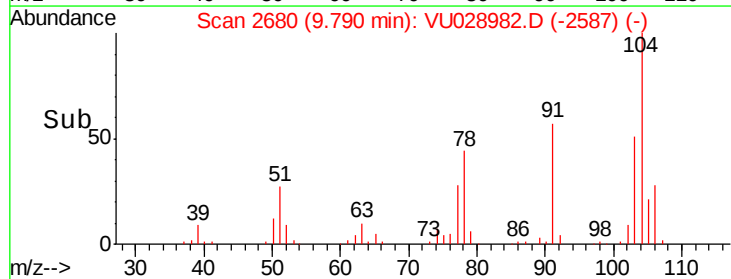
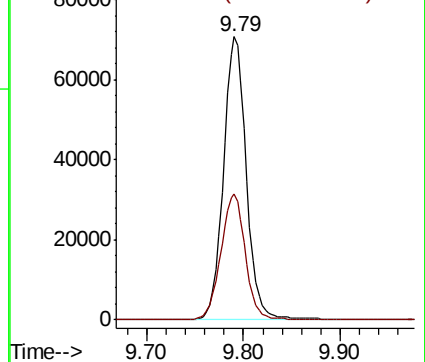
104 100

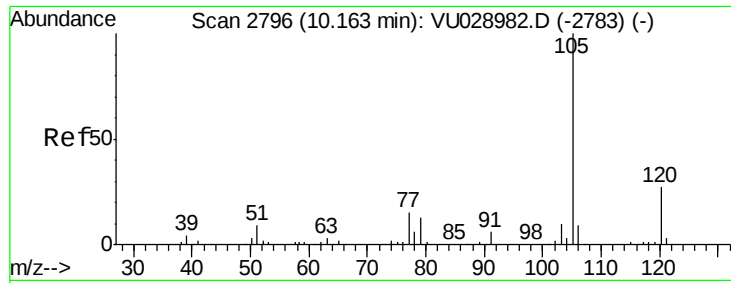
78 44.4 30.9 57.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.775 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampled :

VSTD00551

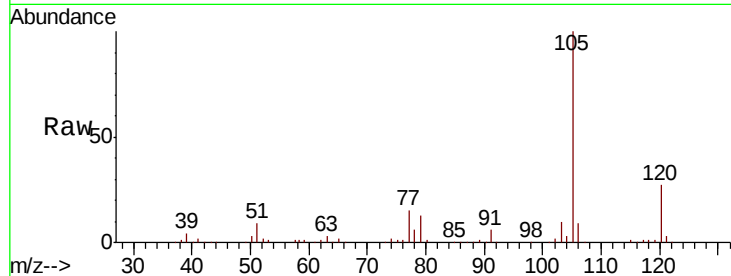
Tot Ion:105 Resp: 176798

Ion Ratio Lower Upper

105 100

120 26.6 20.9 31.3

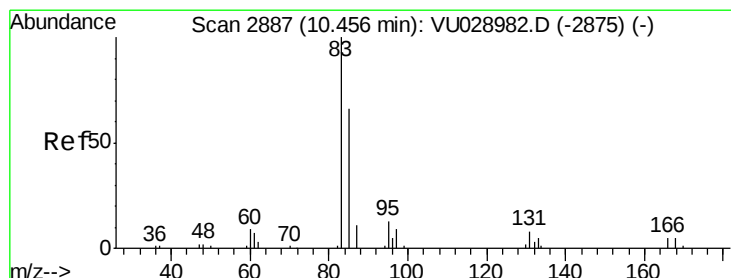
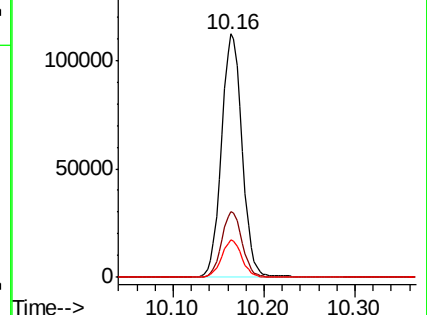
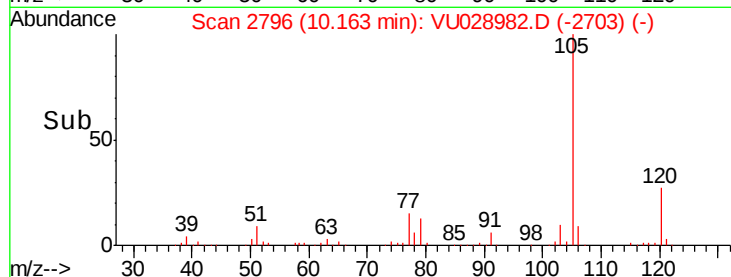
77 15.1 12.0 18.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.220 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

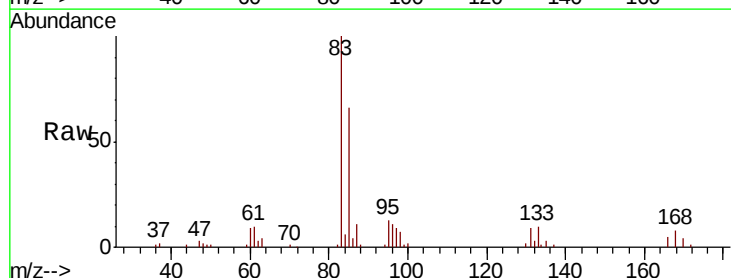
Tgt Ion: 83 Resp: 37075

Ion Ratio Lower Upper

83 100

85 66.2 44.0 81.8

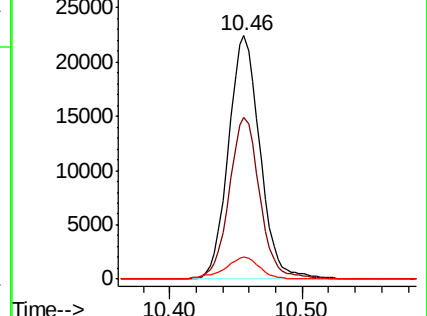
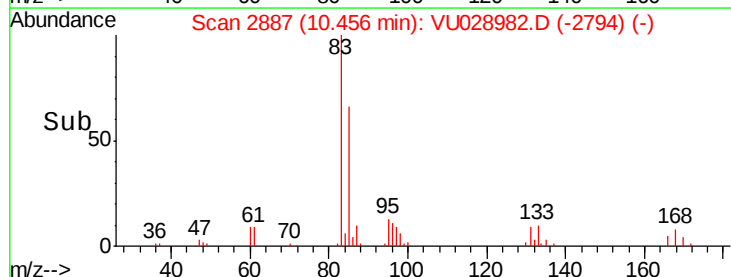
131 8.9 7.8 11.8

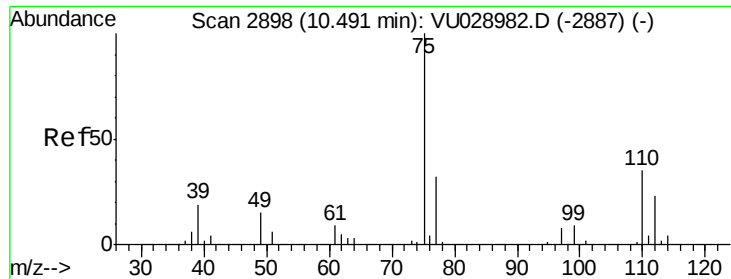


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.227 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

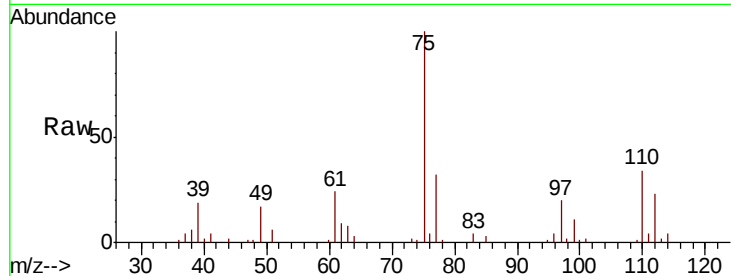
VSTD00551

Tot Ion: 75 Resp: 25978

Ion Ratio Lower Upper

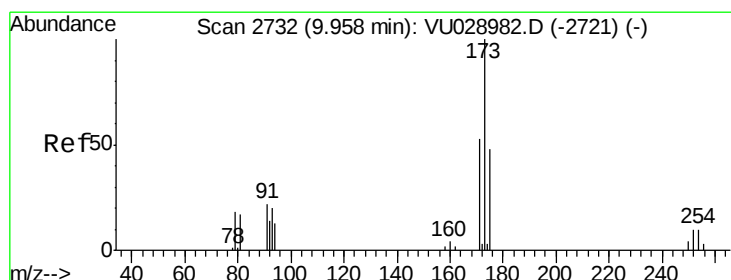
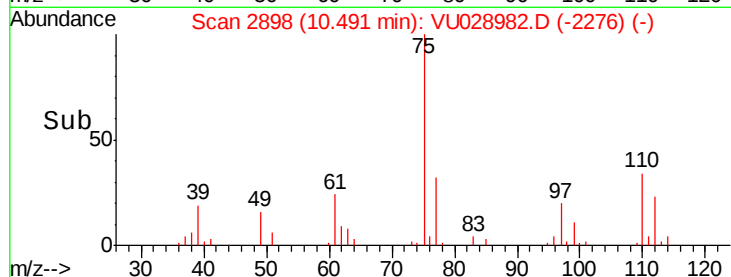
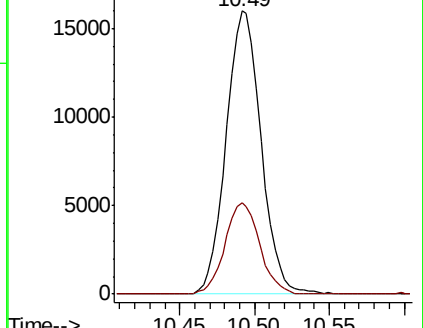
75 100

77 32.1 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU028982.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU028982.D (-2887) (-)



#61

Bromoform

Concen: 5.662 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

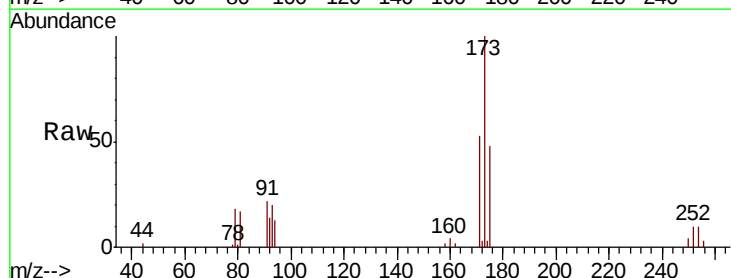
Tgt Ion: 173 Resp: 19166

Ion Ratio Lower Upper

173 100

175 47.4 35.4 53.2

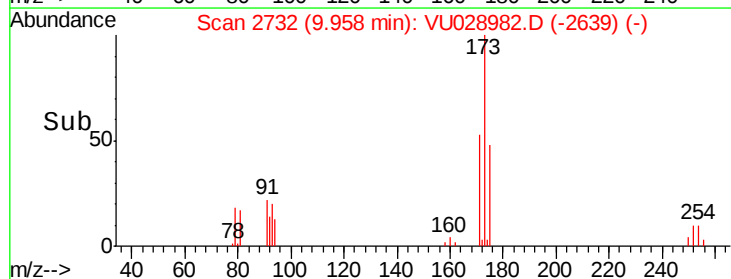
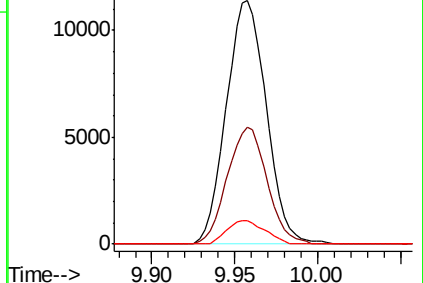
254 9.2 7.5 11.3

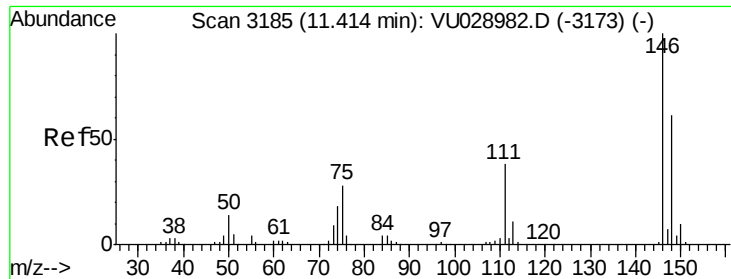


Abundance Ion 172.90 (172.60 to 173.60): VU028982.D (-2721) (-)

Ion 174.90 (174.60 to 175.60): VU028982.D (-2721) (-)

Ion 253.75 (253.45 to 254.45): VU028982.D (-2721) (-)





#62

1,3-Dichlorobenzene

Concen: 5.001 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

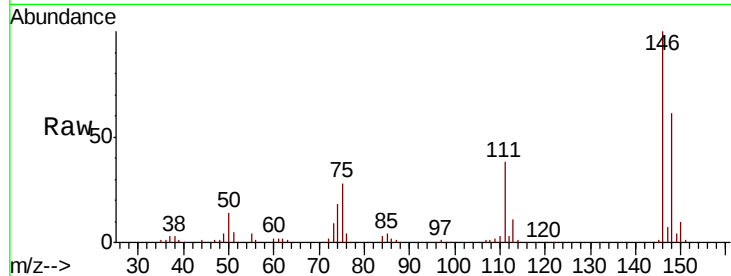
Tot Ion:146 Resp: 83857

Ion Ratio Lower Upper

146 100

111 38.4 27.7 51.5

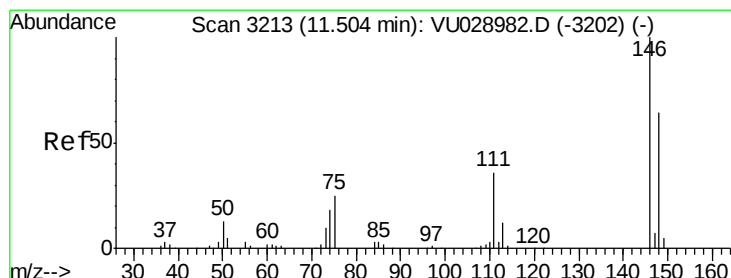
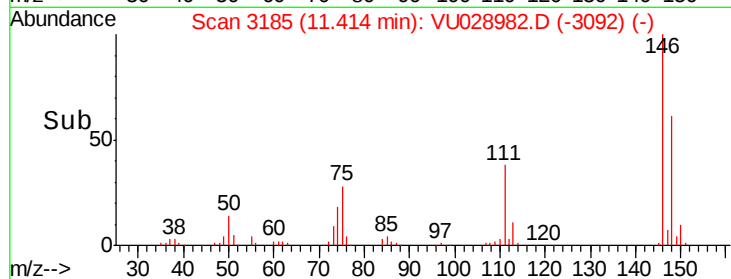
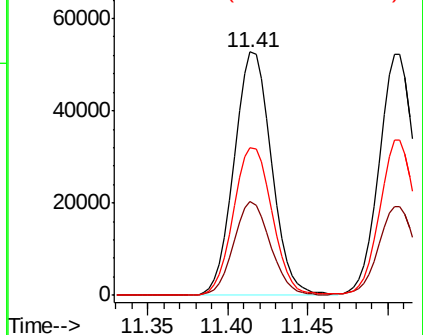
148 60.8 44.9 83.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.945 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

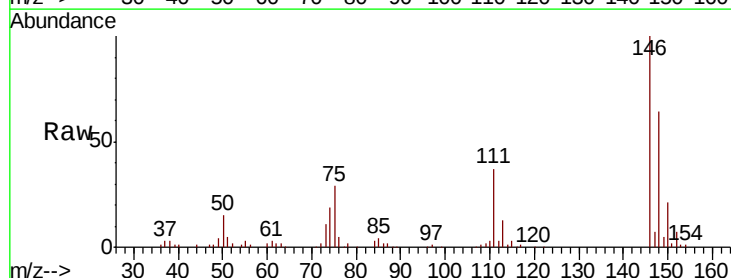
Tgt Ion:146 Resp: 84623

Ion Ratio Lower Upper

146 100

111 36.9 24.9 46.3

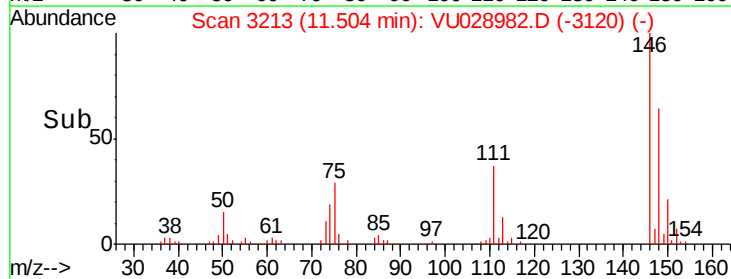
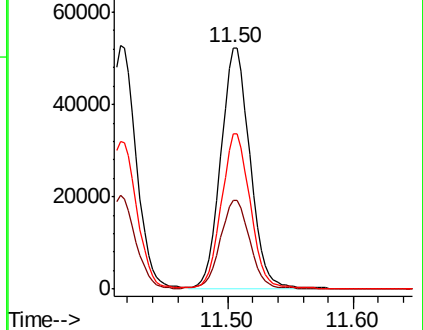
148 64.1 44.9 83.3

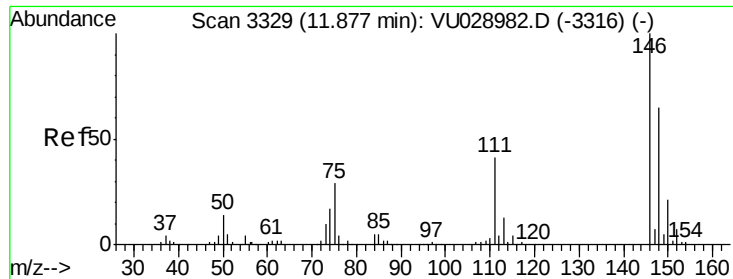


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.058 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

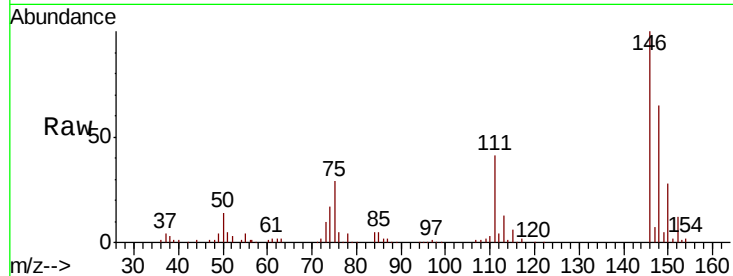
Tot Ion:146 Resp: 80260

Ion Ratio Lower Upper

146 100

111 40.9 32.2 48.4

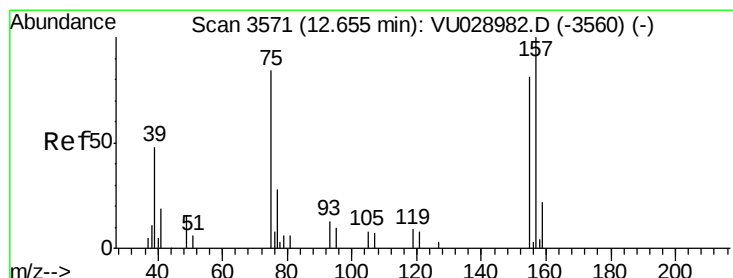
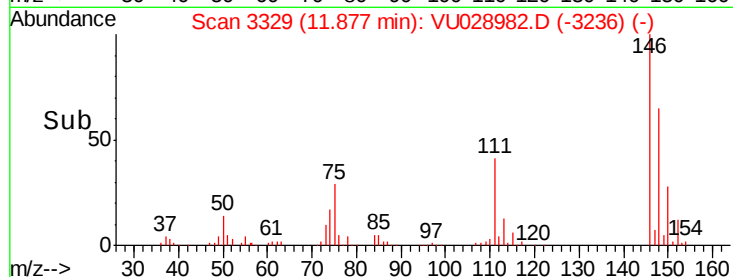
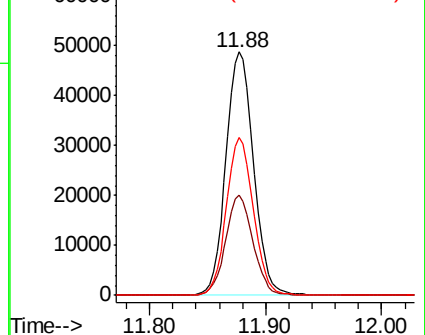
148 64.8 53.2 79.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.686 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

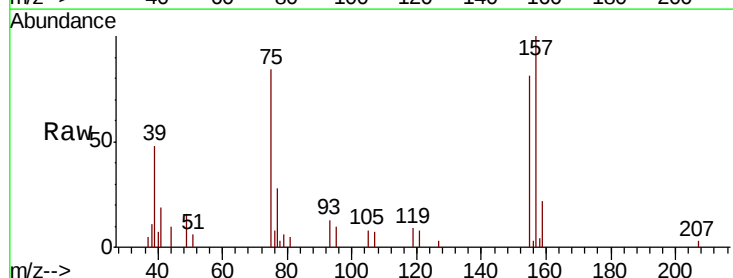
Tgt Ion: 75 Resp: 5327

Ion Ratio Lower Upper

75 100

155 96.5 72.2 108.2

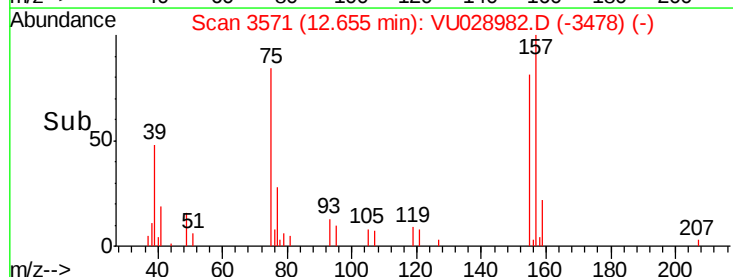
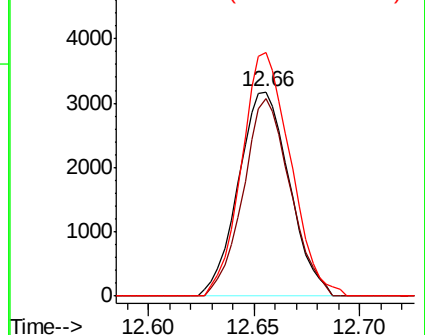
157 119.2 93.0 139.6

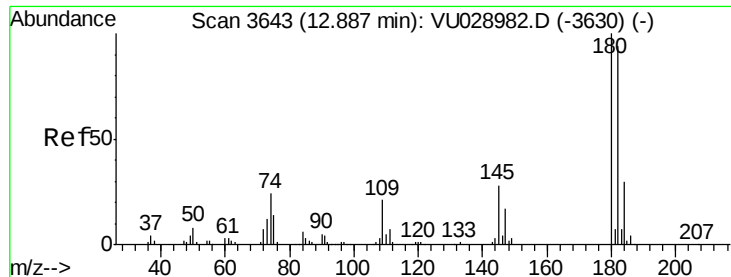


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

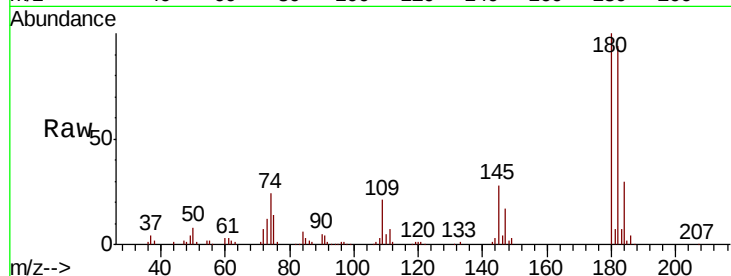




#67
 1,3,5-Trichlorobenzene
 Concen: 5.156 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.6	114.8
184	29.8	24.4	36.6
145	27.0	21.7	32.5



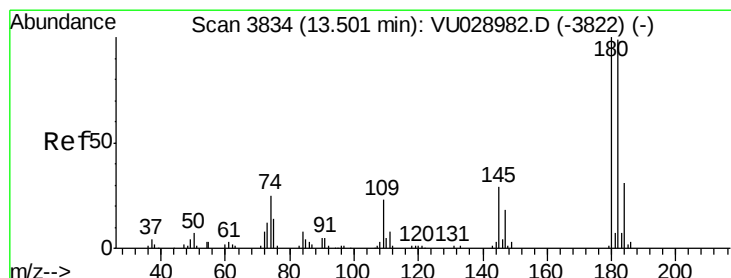
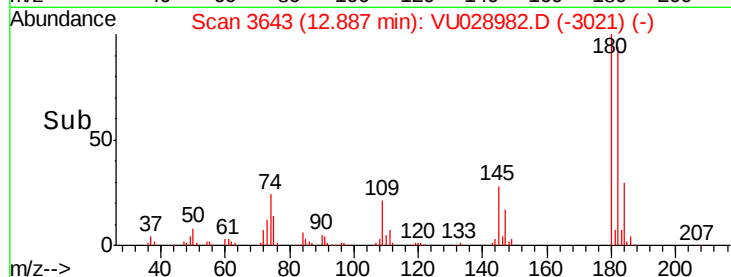
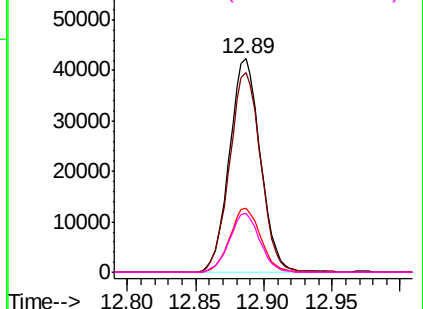
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

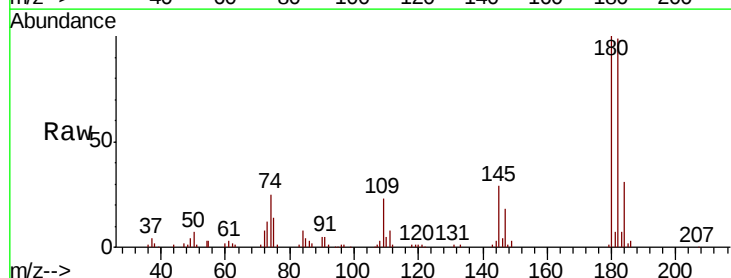
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.125 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028982.D
 Acq: 02 Jan 2019 09:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.0	114.0
145	28.3	22.6	33.8

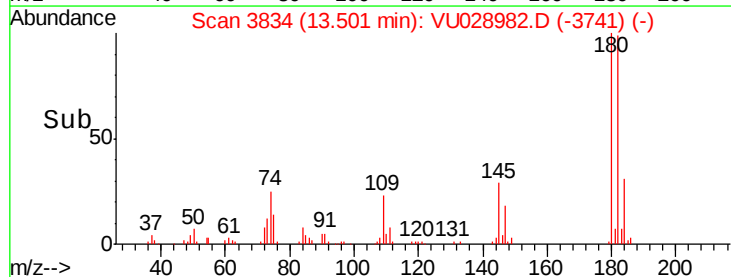
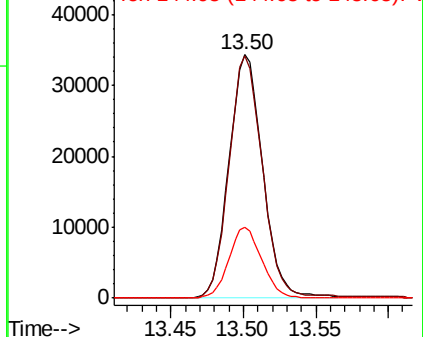


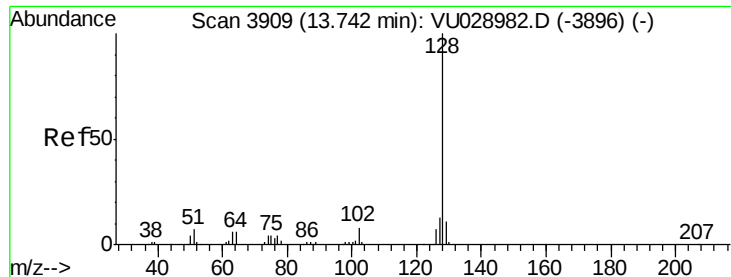
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.163 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

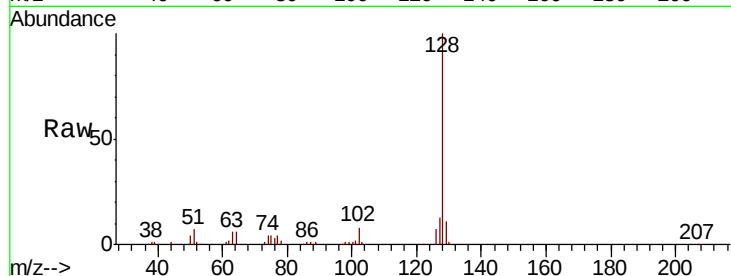
Tot Ion:128 Resp: 95491

Ion Ratio Lower Upper

128 100

129 10.8 8.3 12.5

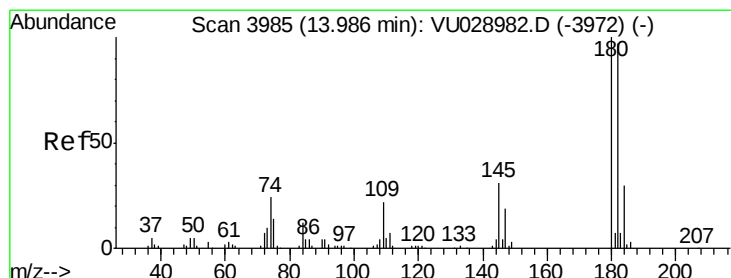
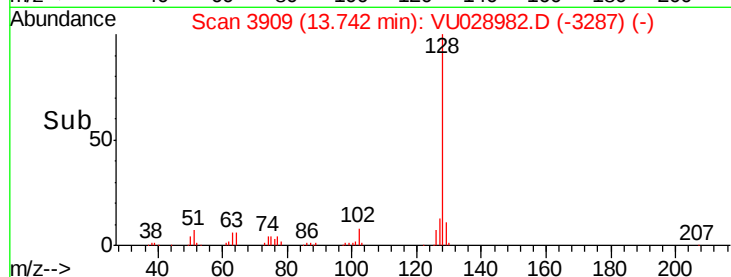
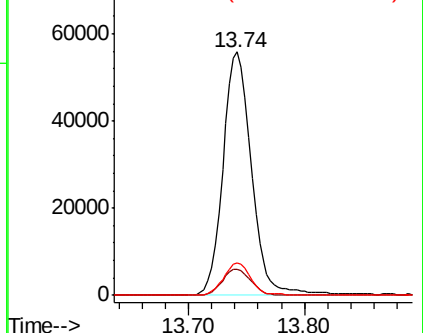
127 12.8 9.8 14.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.123 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028982.D

Acq: 02 Jan 2019 09:45

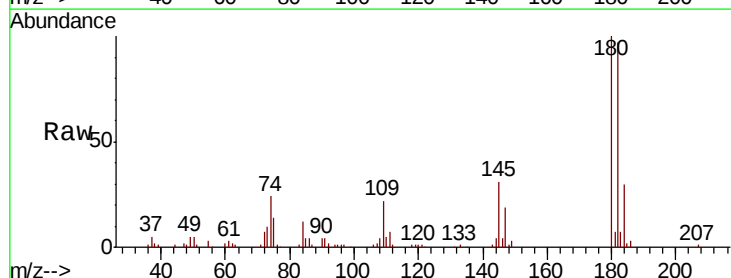
Tgt Ion:180 Resp: 52840

Ion Ratio Lower Upper

180 100

182 95.0 77.1 115.7

145 29.5 24.6 36.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

