

Data File : VU029499.D
Acq On : 15 Feb 2019 16:06
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

Quant Time: Feb 16 00:13:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Feb 15 01:55:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	201217	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	199706	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	112159	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	62034	4.59	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.80%
7) Chloroethane-d5	1.68	69	55931	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.27	63	144370	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.20%
20) 2-Butanone-d5	4.19	46	136389	48.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.04%
24) Chloroform-d	4.64	84	105068	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	5.31	65	56158	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
32) Benzene-d6	5.34	84	228608	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.33	67	66899	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.56	98	234224	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
43) trans-1,3-Dichloropropene-	7.85	79	29950	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
46) 2-Hexanone-d5	8.31	63	149449	51.21	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.42%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	62900	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	105562	5.10	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	88529	5.024	ug/L 100
3) Chloromethane	1.32	50	73007	4.390	ug/L 100
5) Vinyl chloride	1.40	62	95387	4.922	ug/L 98
6) Bromomethane	1.63	94	48176	4.262	ug/L 99
8) Chloroethane	1.70	64	61903	4.906	ug/L 98
9) Trichlorofluoromethane	1.88	101	154609	5.212	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	92163	5.271	ug/L 99
12) 1,1-Dichloroethene	2.28	96	83837	5.063	ug/L 98
13) Acetone	2.32	43	136784	53.565	ug/L 99
14) Carbon disulfide	2.48	76	269272	4.935	ug/L 99
15) Methyl Acetate	2.62	43	35258	5.390	ug/L 95
16) Methylene chloride	2.70	84	101292	5.443	ug/L 96
17) Methyl tert-butyl Ether	3.00	73	217624	5.249	ug/L 99
18) trans-1,2-Dichloroethene	2.98	96	92794	5.255	ug/L 96
19) 1,1-Dichloroethane	3.44	63	133498	5.018	ug/L 97
21) 2-Butanone	4.28	43	162691	51.559	ug/L 99
22) cis-1,2-Dichloroethene	4.22	96	81516	5.019	ug/L 99

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Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

Quant Time: Feb 16 00:13:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Feb 15 01:55:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	38233	5.214	ug/L	96
25) Chloroform	4.67	83	135256	5.082	ug/L	97
27) 1,2-Dichloroethane	5.40	62	79632	5.171	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	117438	4.754	ug/L	99
30) Cyclohexane	4.99	56	110371	4.663	ug/L	99
31) Carbon tetrachloride	5.13	117	104499	4.682	ug/L	98
33) Benzene	5.39	78	283892	4.830	ug/L	100
34) Trichloroethene	6.18	95	80780	4.888	ug/L	97
35) Methylcyclohexane	6.41	83	132430	4.763	ug/L	98
37) 1,2-Dichloropropane	6.43	63	72432	4.920	ug/L	100
38) Bromodichloromethane	6.76	83	93694	4.816	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	112083	4.837	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	435810	51.350	ug/L	98
42) Toluene	7.63	91	331408	5.023	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	93419	4.909	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	58337	5.173	ug/L	96
47) Tetrachloroethene	8.22	164	78721	5.200	ug/L	98
48) 2-Hexanone	8.36	43	312978	50.598	ug/L	100
49) Dibromochloromethane	8.48	129	75616	4.975	ug/L	98
50) 1,2-Dibromoethane	8.58	107	58497	5.241	ug/L	96
51) Chlorobenzene	9.12	112	231689	5.106	ug/L	99
52) Ethylbenzene	9.25	91	379604	5.081	ug/L	99
53) m,p-xylene	9.37	106	153219	5.143	ug/L	99
54) o-xylene	9.78	106	150997	5.164	ug/L	97
55) Styrene	9.79	104	248110	5.111	ug/L	99
56) Isopropylbenzene	10.16	105	399850	5.184	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	73345	5.329	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	50300	5.326	ug/L	95
61) Bromoform	9.95	173	45807	4.825	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	201993	5.084	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	202698	5.108	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	193727	5.174	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	11797	5.037	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	163878	4.971	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	139620	5.028	ug/L	100
69) Naphthalene	13.74	128	243520	5.078	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	131574	4.956	ug/L	98

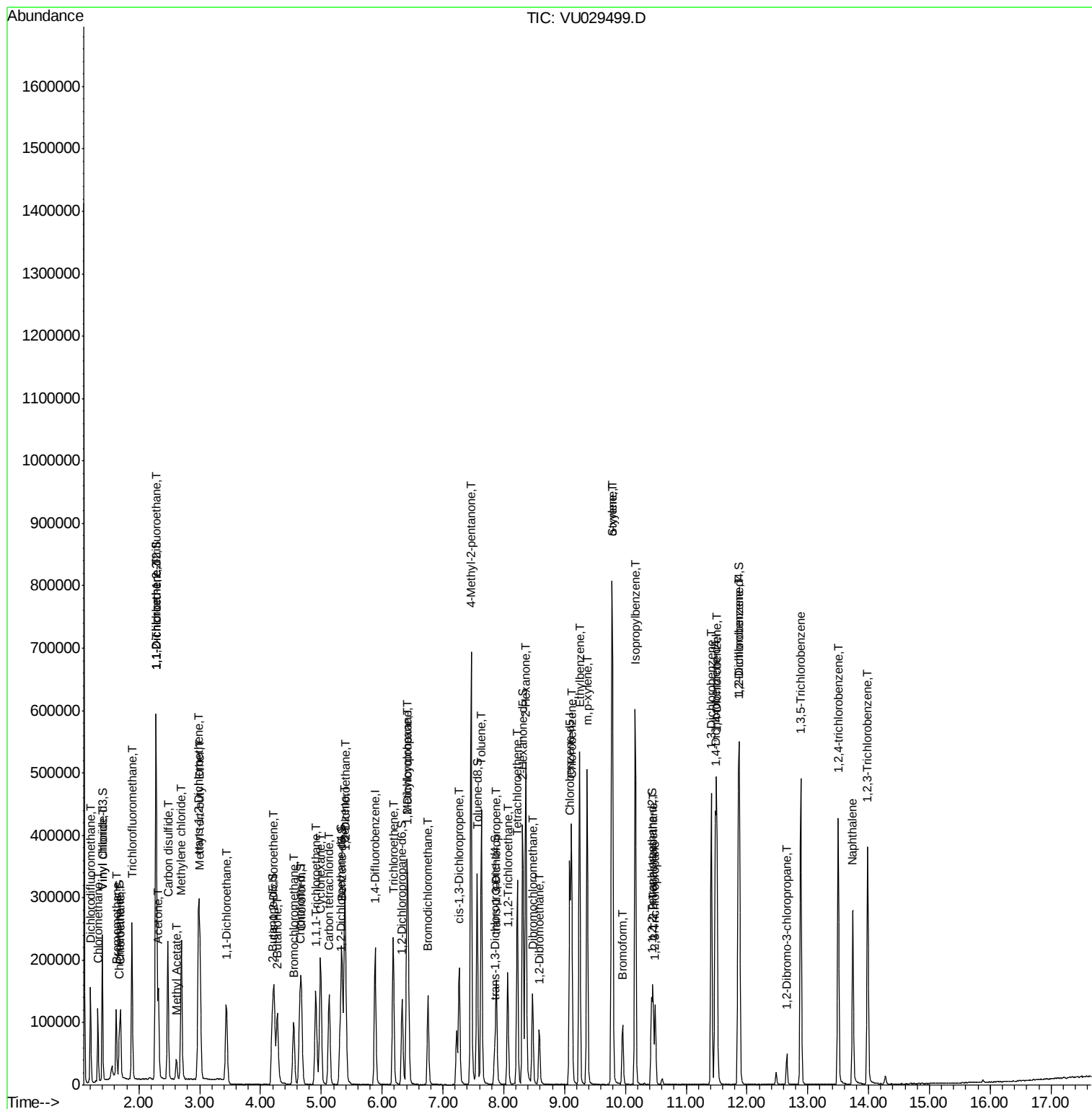
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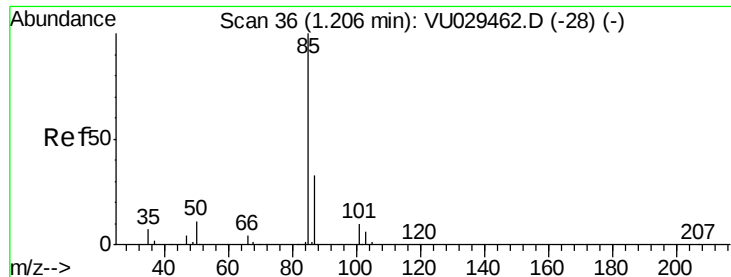
Data File : VU029499.D

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Acq On       : 15 Feb 2019   16:06
Operator    : JC/SP
Sample      : VSTDCCC005
Misc       : 25.0mL/MSV0A_U/WATER
ALS Vial    : 2      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

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#2

Dichlorodifluoromethane

Concen: 5.024 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

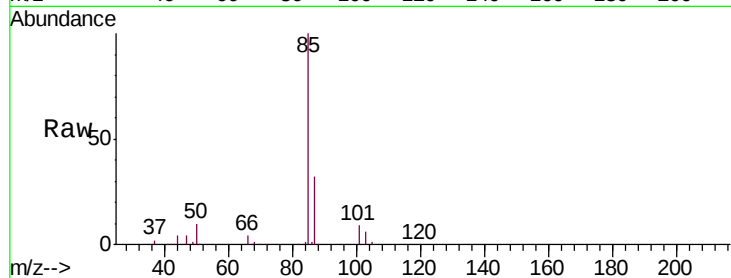
VSTD00558

Tgt Ion: 85 Resp: 88529

Ion Ratio Lower Upper

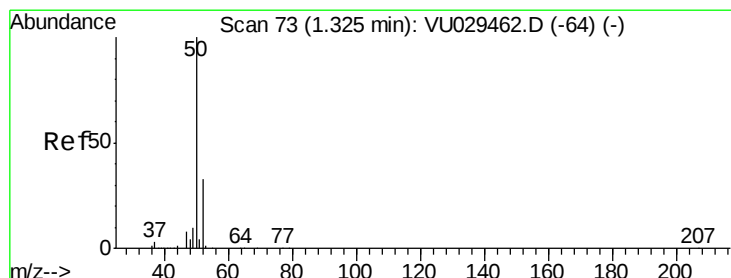
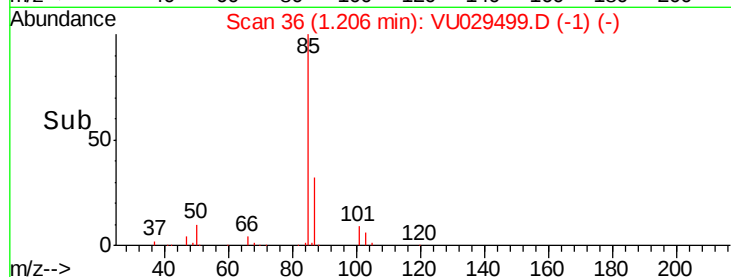
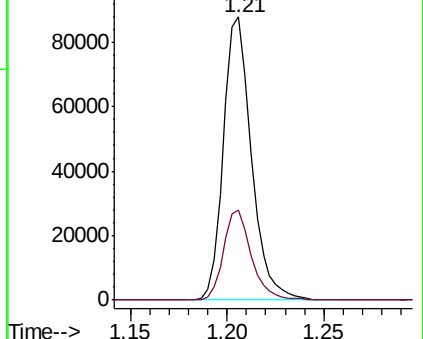
85 100

87 31.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.390 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU029499.D

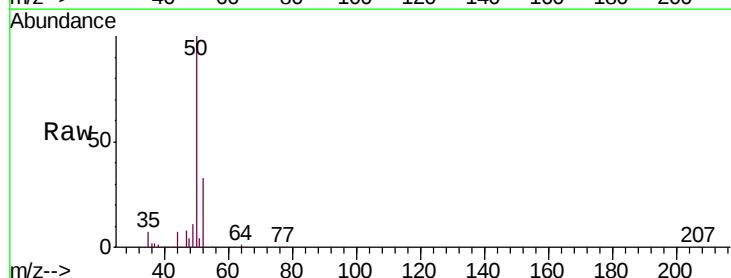
Acq: 15 Feb 2019 16:06

Tgt Ion: 50 Resp: 73007

Ion Ratio Lower Upper

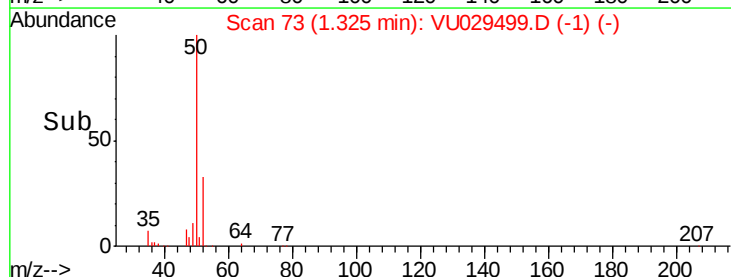
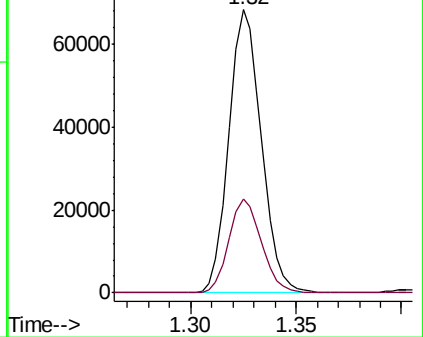
50 100

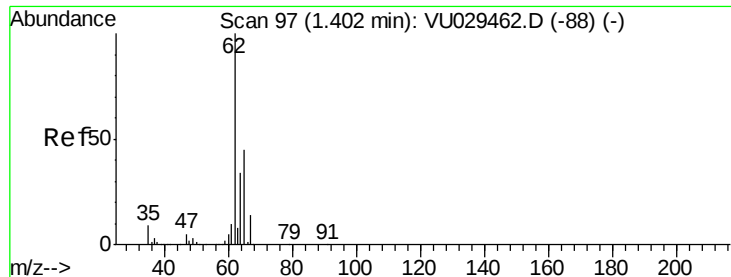
52 33.0 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.922 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

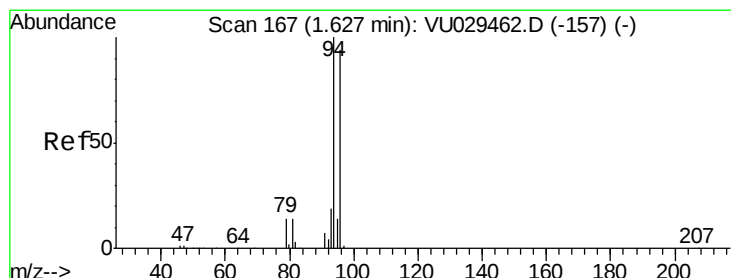
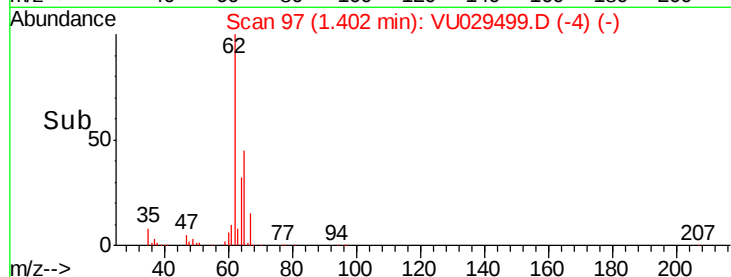
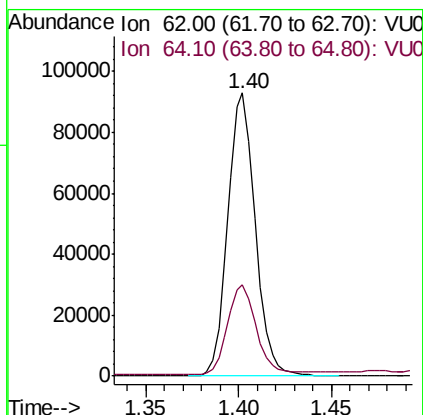
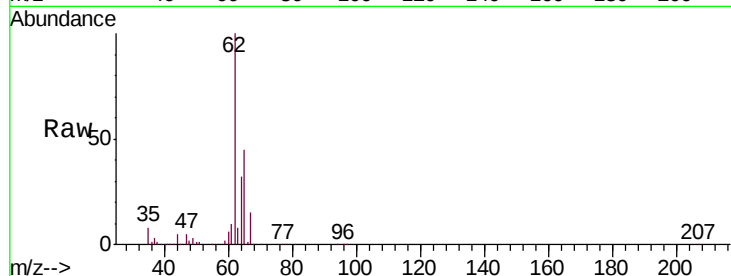
VSTD00558

Tgt Ion: 62 Resp: 95387

Ion Ratio Lower Upper

62 100

64 32.2 23.5 43.7



#6

Bromomethane

Concen: 4.262 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029499.D

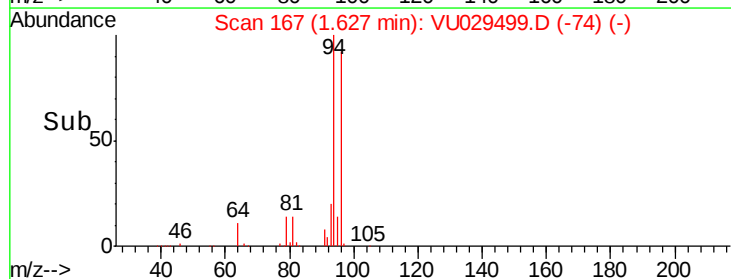
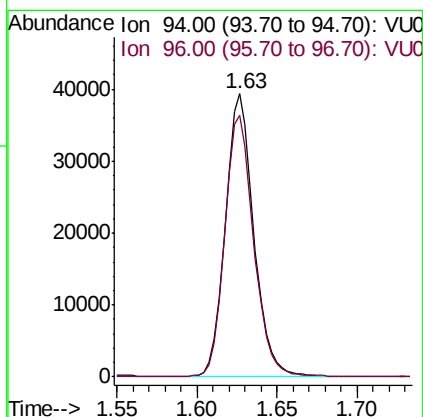
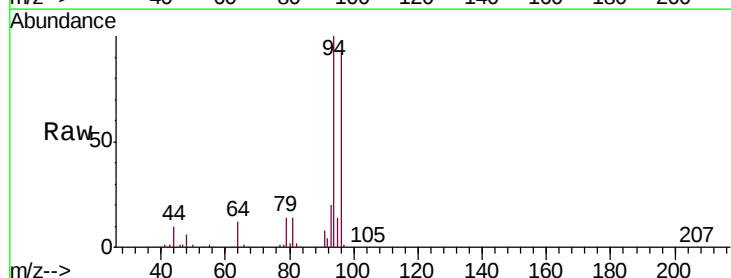
Acq: 15 Feb 2019 16:06

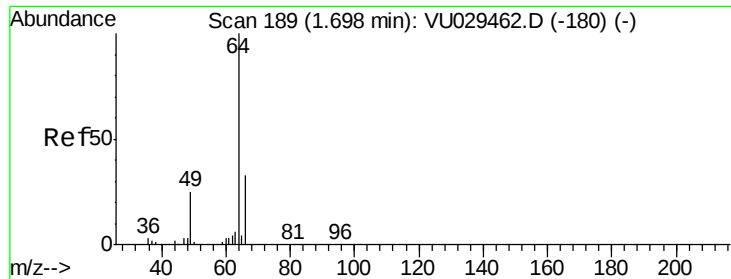
Tgt Ion: 94 Resp: 48176

Ion Ratio Lower Upper

94 100

96 92.5 65.2 121.0





#8

Chloroethane

Concen: 4.906 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

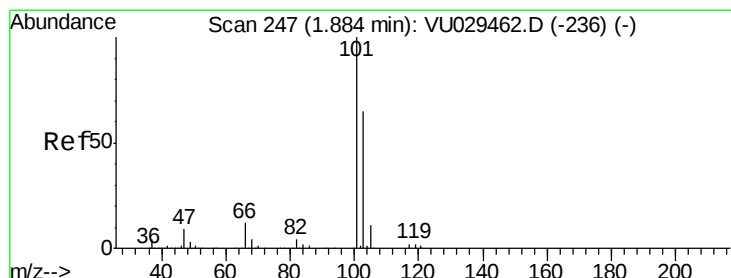
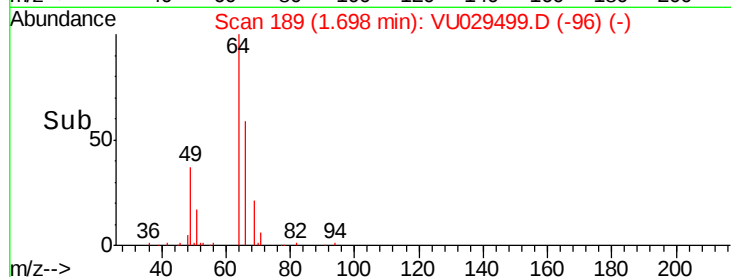
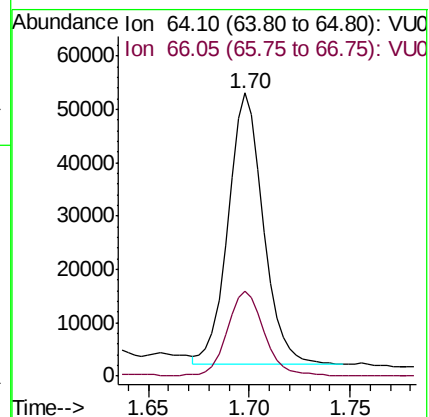
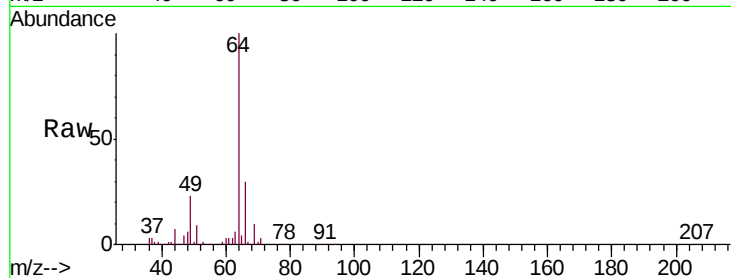
VSTD00558

Tgt Ion: 64 Resp: 61903

Ion Ratio Lower Upper

64 100

66 30.1 22.0 40.8



#9

Trichlorofluoromethane

Concen: 5.212 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU029499.D

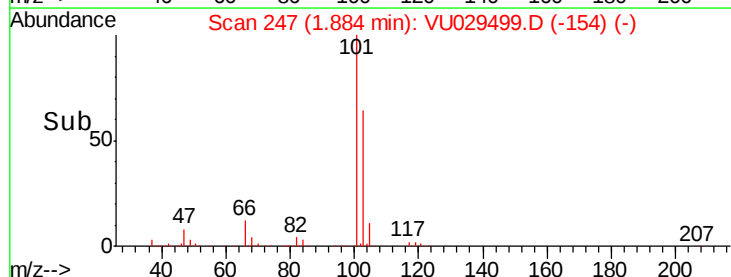
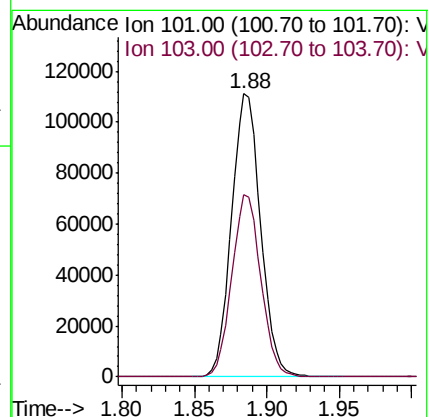
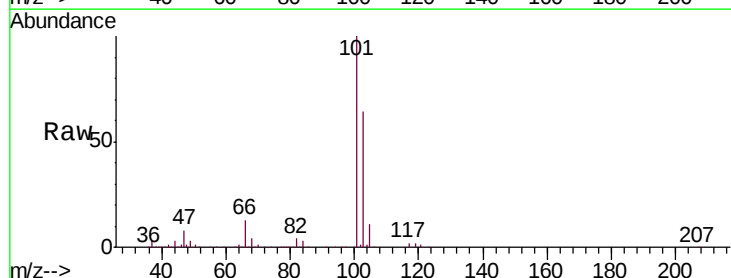
Acq: 15 Feb 2019 16:06

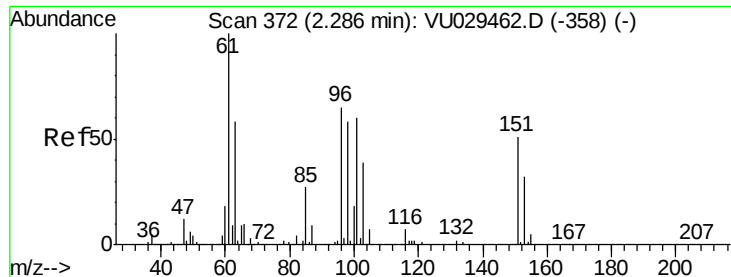
Tgt Ion: 101 Resp: 154609

Ion Ratio Lower Upper

101 100

103 64.2 52.1 78.1





#10

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

Concen: 5.271 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

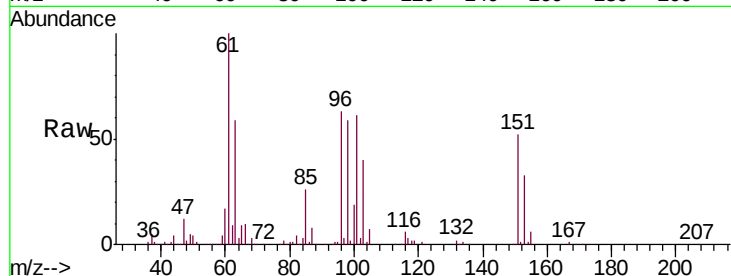
Tgt Ion: 101 Resp: 92163

Ion Ratio Lower Upper

101 100

85 42.5 35.1 52.7

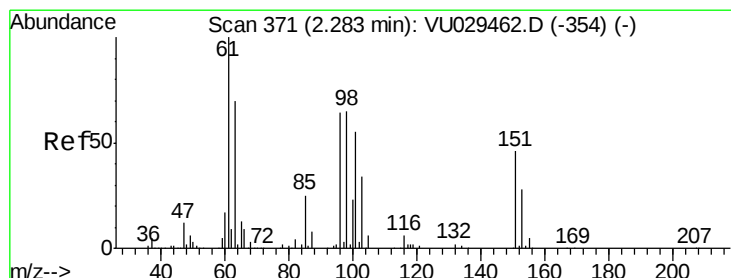
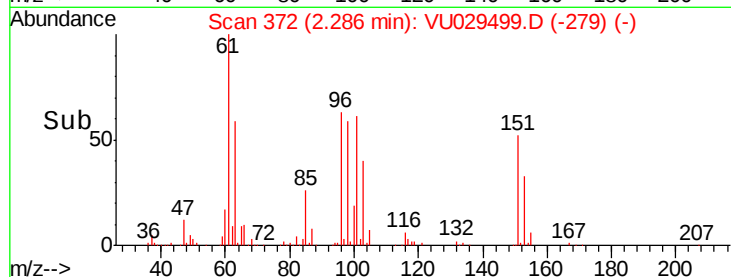
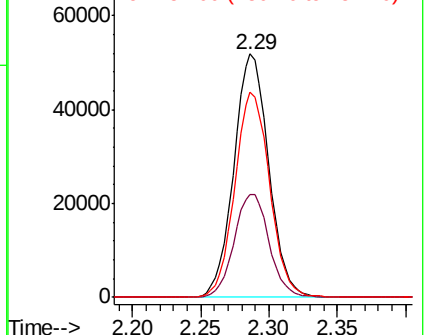
151 84.3 67.0 100.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.063 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

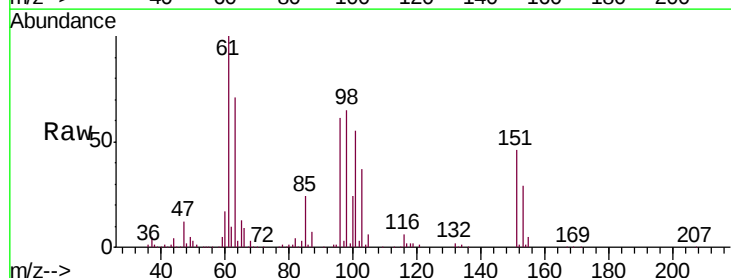
Tgt Ion: 96 Resp: 83837

Ion Ratio Lower Upper

96 100

61 162.8 115.1 213.7

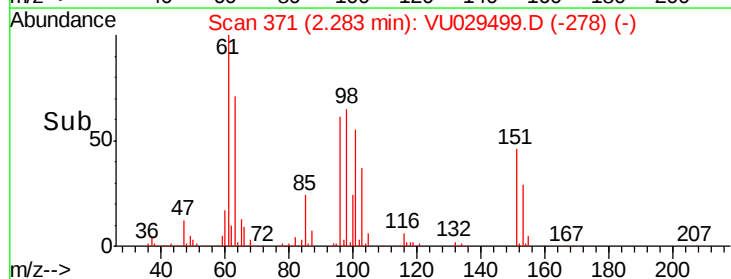
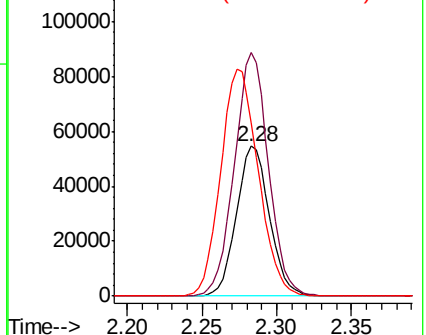
63 115.5 83.5 155.1

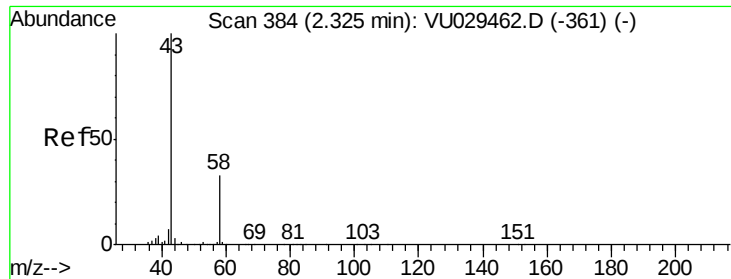


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

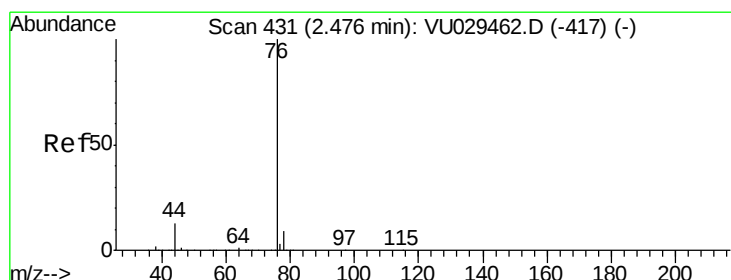
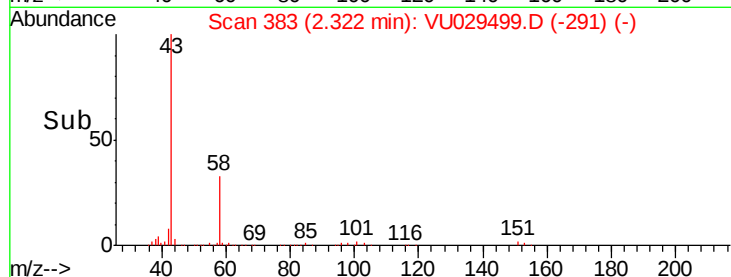
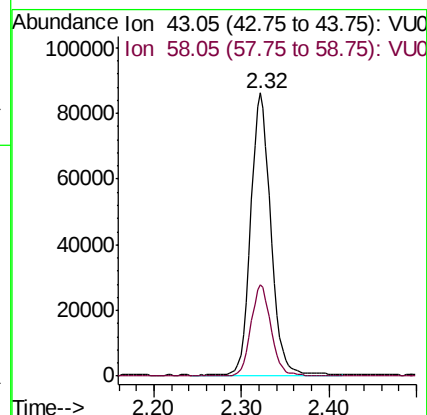
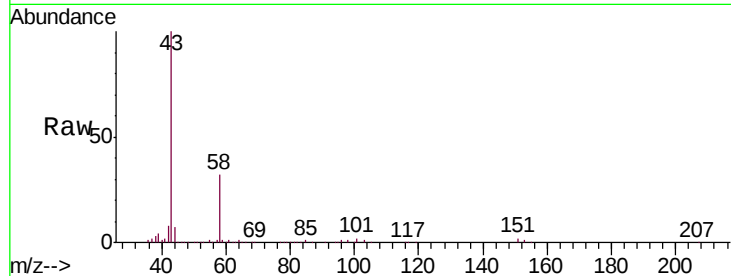




#13
Acetone
Concen: 53.565 ug/L
RT: 2.32 min Scan# 383
Delta R.T. -0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

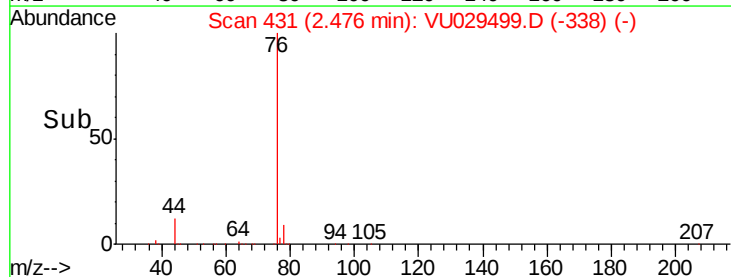
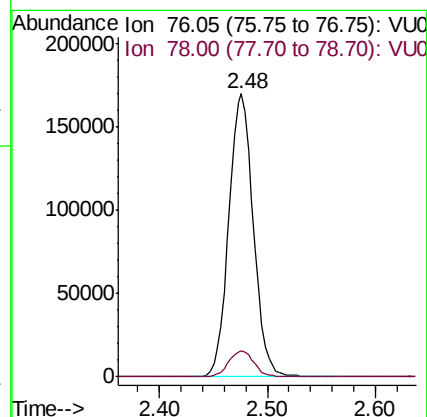
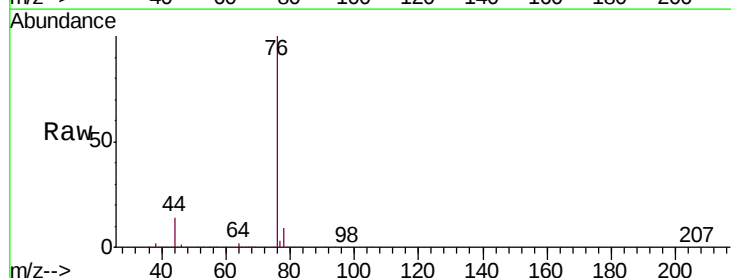
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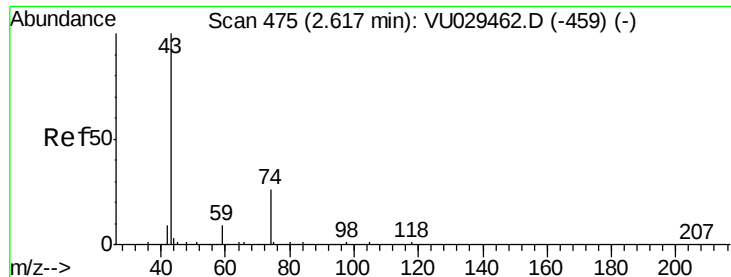
Tgt Ion: 43 Resp: 136784
Ion Ratio Lower Upper
43 100
58 31.8 0.0 65.0



#14
Carbon disulfide
Concen: 4.935 ug/L
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

Tgt Ion: 76 Resp: 269272
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3

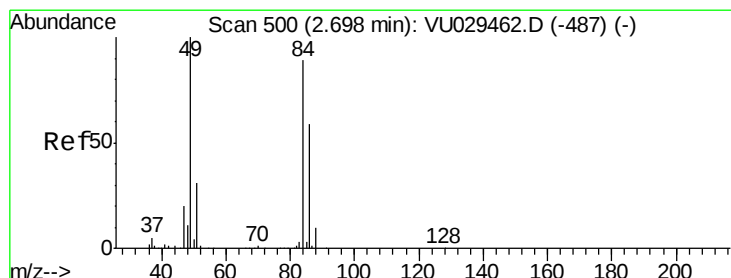
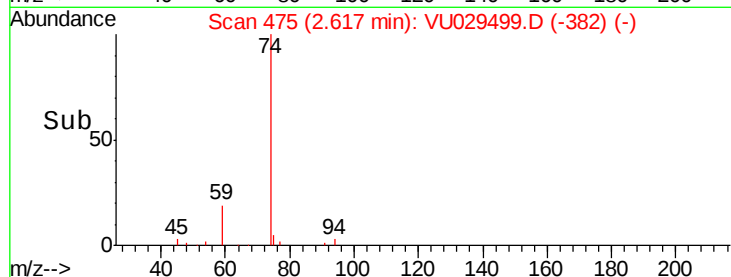
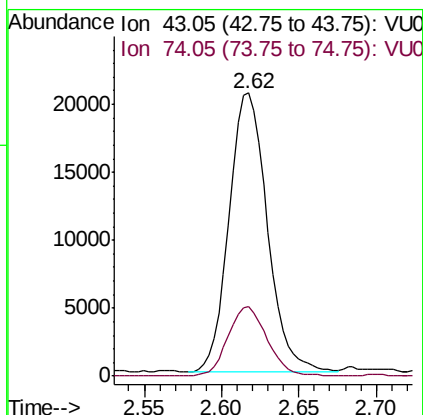
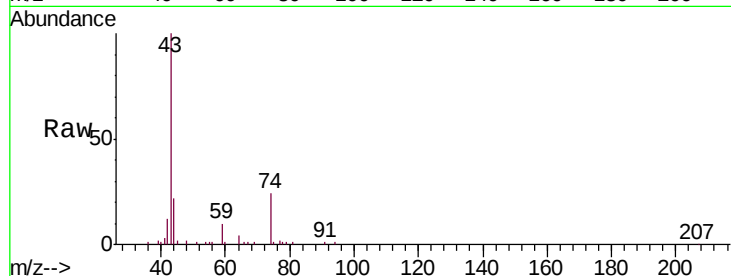




#15
Methyl Acetate
Concen: 5.390 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

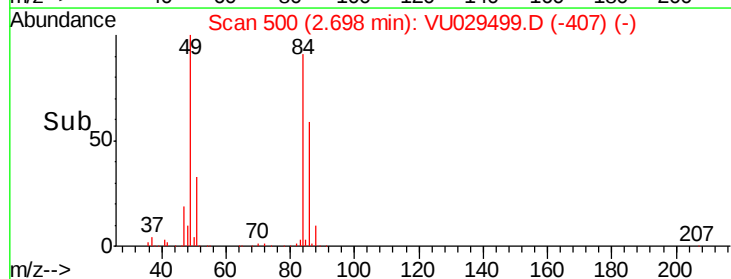
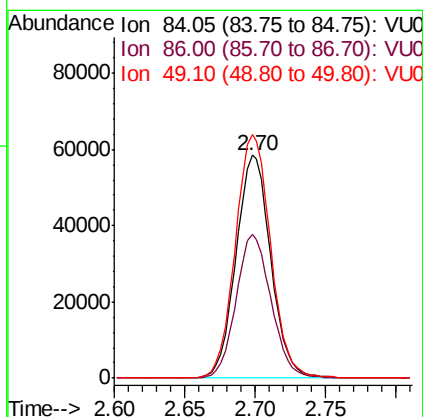
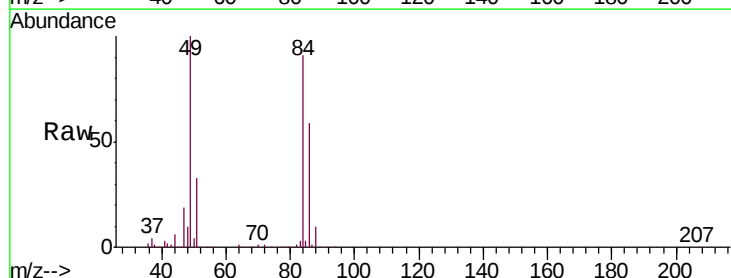
Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

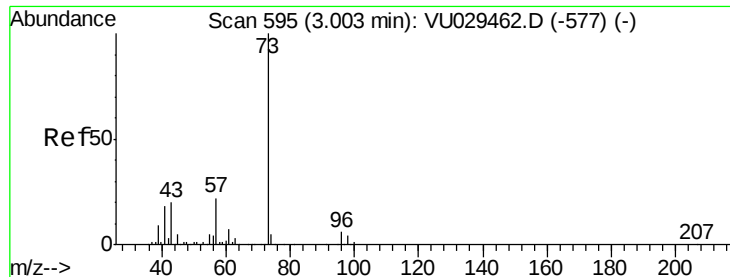
Tgt Ion: 43 Resp: 35258
Ion Ratio Lower Upper
43 100
74 25.4 22.3 33.5



#16
Methylene chloride
Concen: 5.443 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

Tgt Ion: 84 Resp: 101292
Ion Ratio Lower Upper
84 100
86 64.6 45.1 83.9
49 109.4 81.8 151.8





#17

Methyl tert-butyl Ether

Concen: 5.249 ug/L

RT: 3.00 min Scan# 595

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

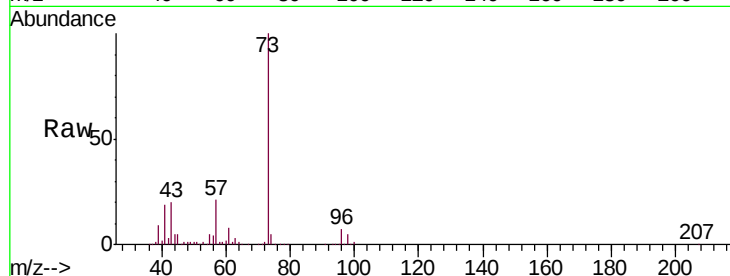
Tgt Ion: 73 Resp: 217624

Ion Ratio Lower Upper

73 100

43 19.4 16.0 24.0

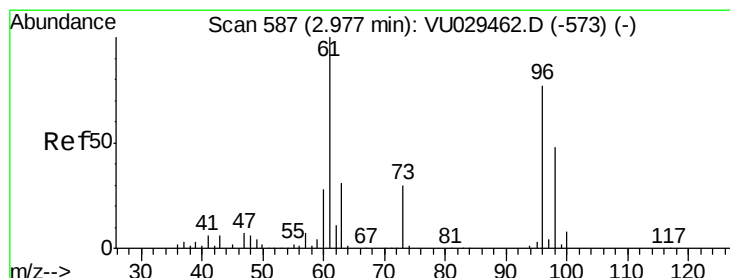
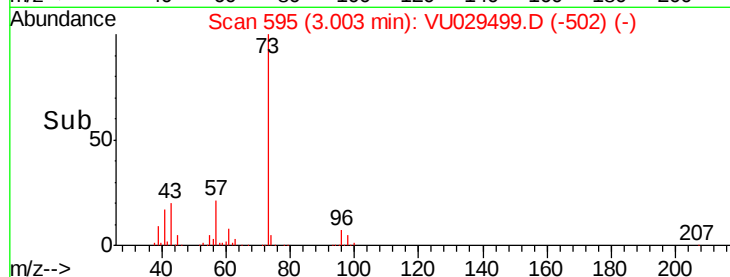
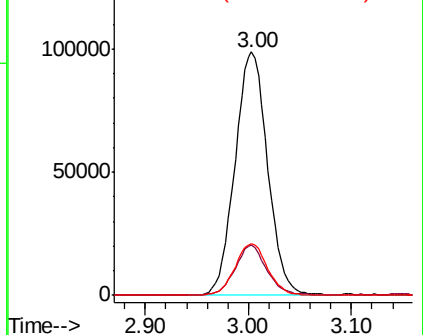
57 21.0 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 5.255 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

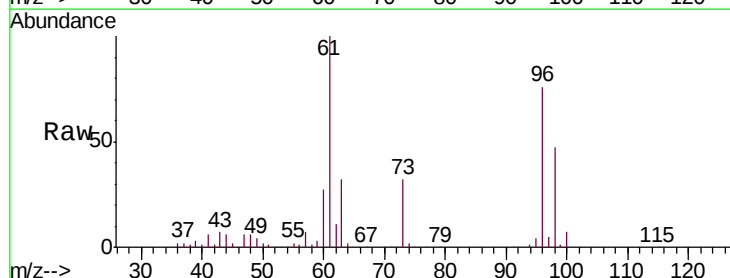
Tgt Ion: 96 Resp: 92794

Ion Ratio Lower Upper

96 100

61 132.1 95.4 177.2

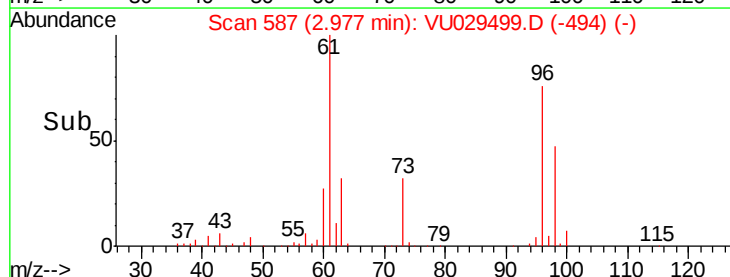
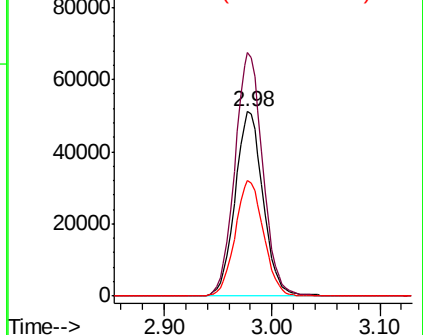
98 62.6 45.8 85.2

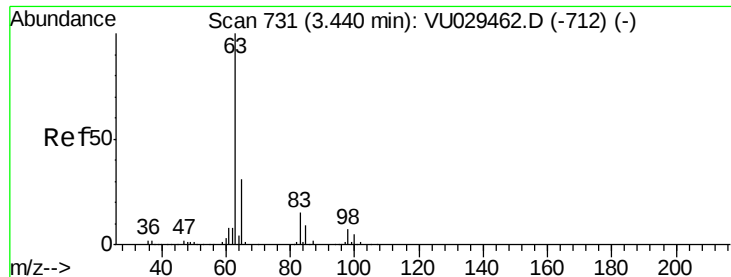


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

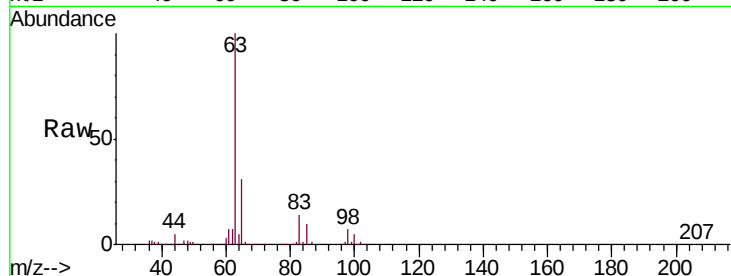




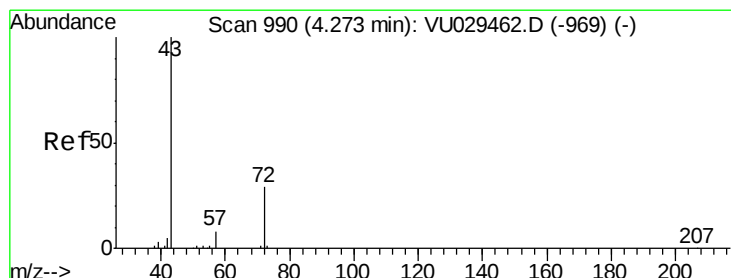
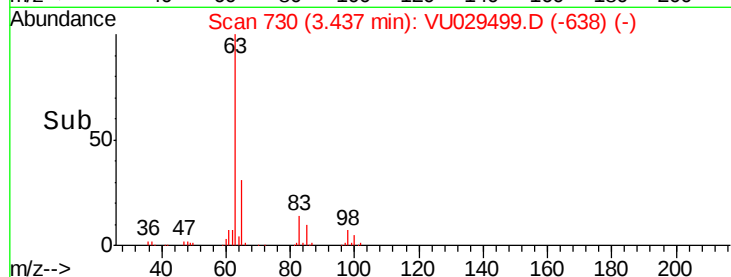
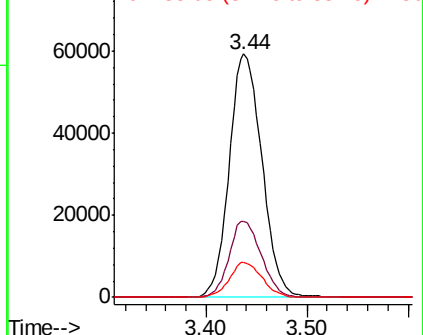
#19
 1,1-Dichloroethane
 Concen: 5.018 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

Tgt Ion: 63 Resp: 133498
 Ion Ratio Lower Upper
 63 100
 65 31.4 23.5 43.7
 83 14.2 10.3 19.1

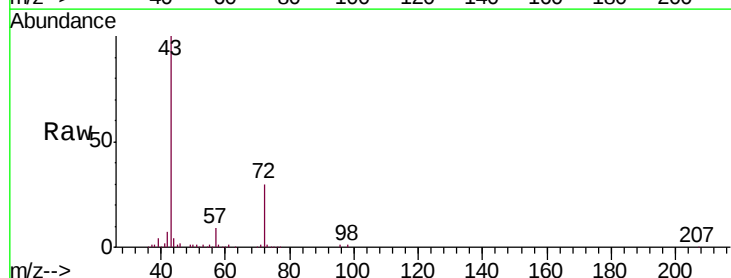


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

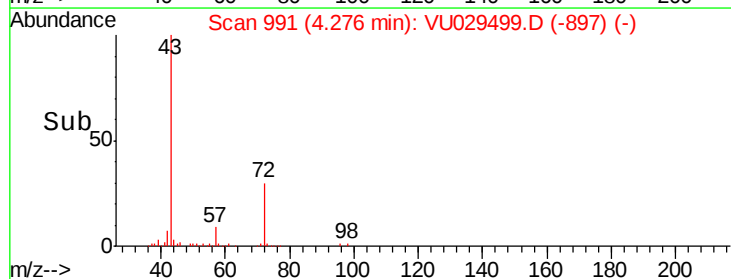
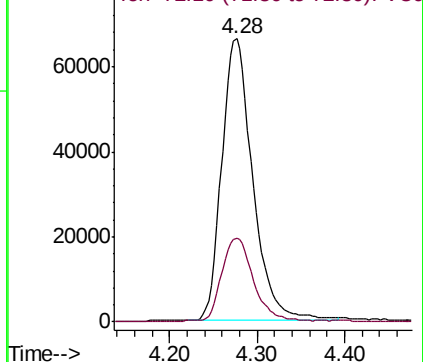


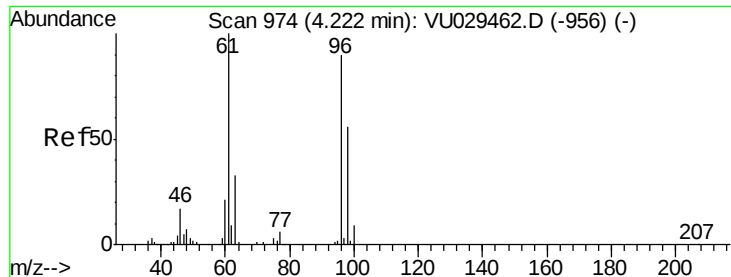
#21
 2-Butanone
 Concen: 51.559 ug/L
 RT: 4.28 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion: 43 Resp: 162691
 Ion Ratio Lower Upper
 43 100
 72 30.0 14.7 44.1



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



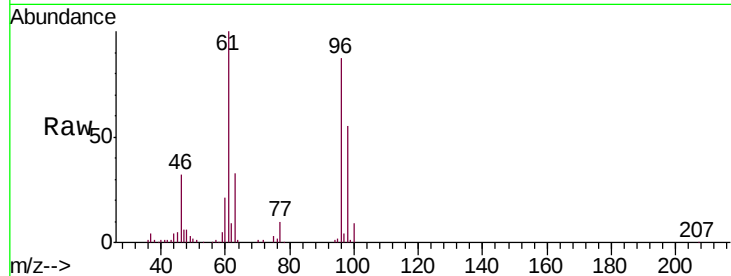


#22

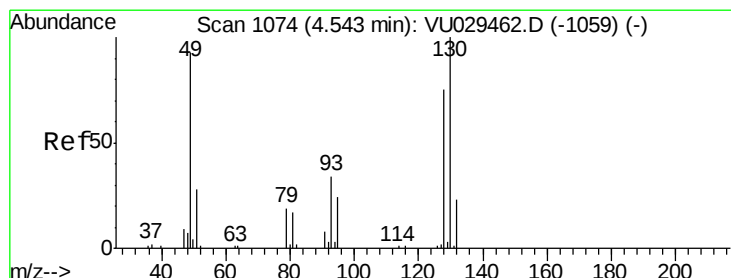
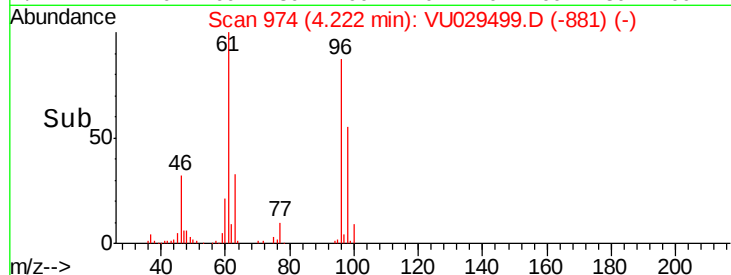
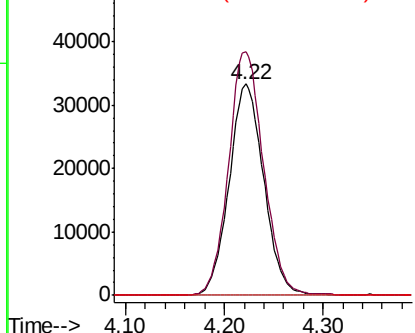
cis-1,2-Dichloroethene
 Concen: 5.019 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

Tgt Ion: 96 Resp: 81516
 Ion Ratio Lower Upper
 96 100
 61 115.1 79.9 148.5
 68 0.0 0.0 0.0



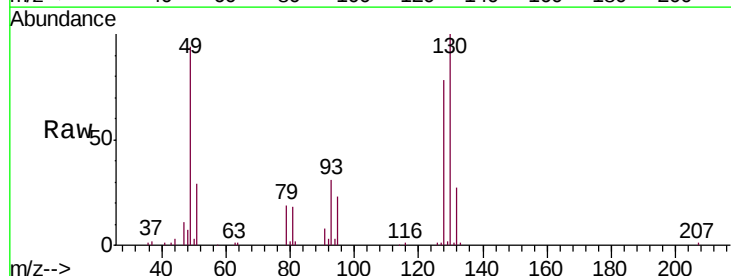
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



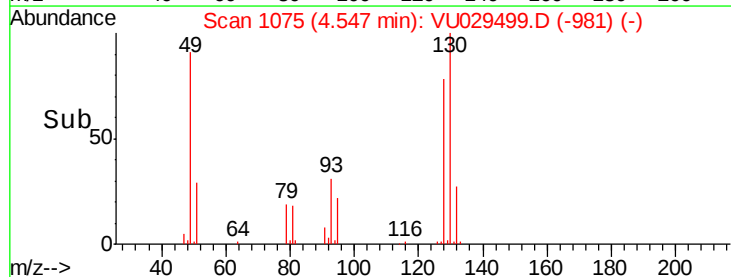
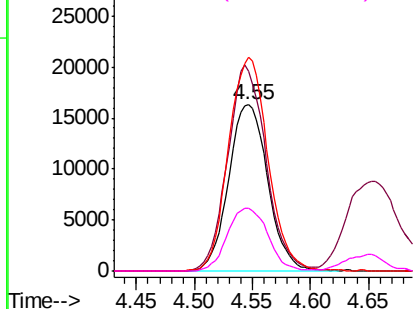
#23

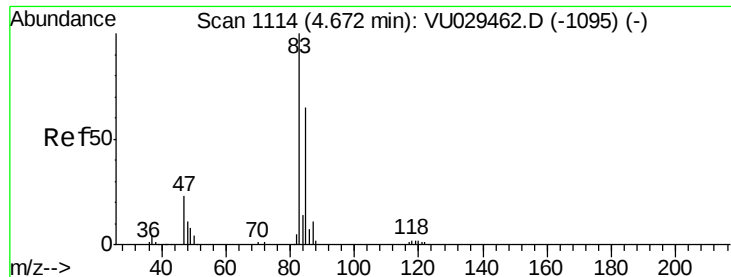
Bromochloromethane
 Concen: 5.214 ug/L
 RT: 4.55 min Scan# 1075
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion: 128 Resp: 38233
 Ion Ratio Lower Upper
 128 100
 49 120.5 89.0 165.4
 130 128.6 88.0 163.4
 51 37.8 32.1 48.1



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





#25

Chloroform

Concen: 5.082 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

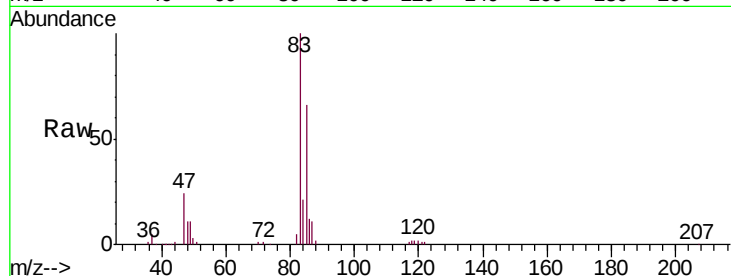
VSTD00558

Tgt Ion: 83 Resp: 135256

Ion Ratio Lower Upper

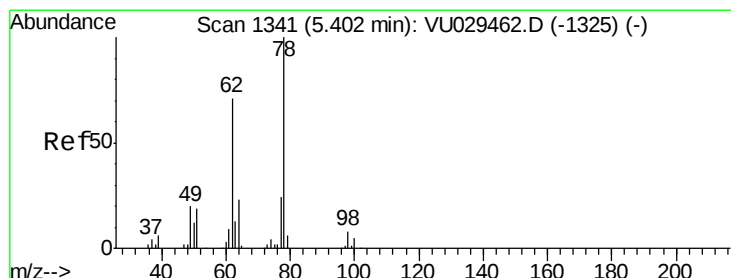
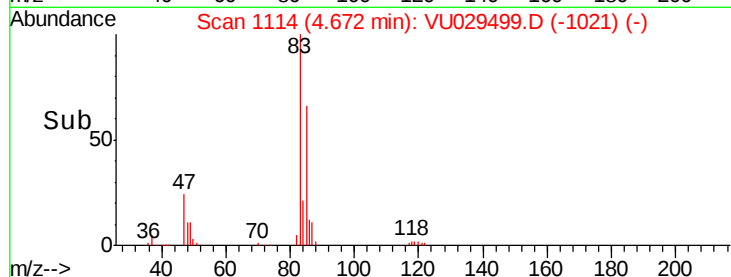
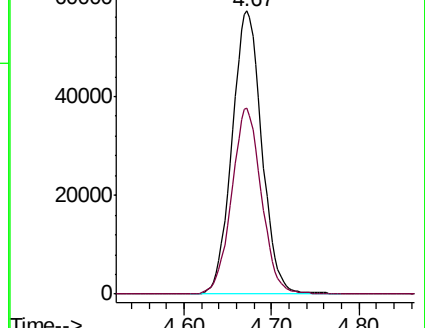
83 100

85 65.7 47.8 88.8



Abundance Ion 83.05 (82.75 to 83.75): VU029462.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU029462.D (-1095) (-)



#27

1,2-Dichloroethane

Concen: 5.171 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU029499.D

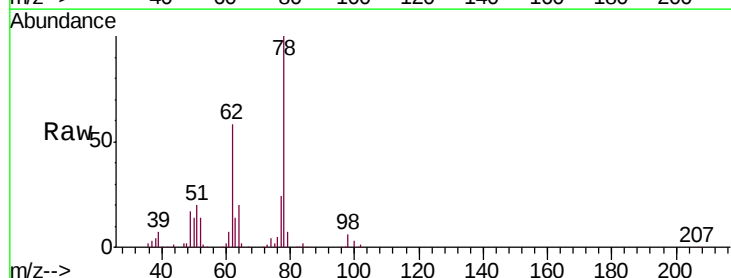
Acq: 15 Feb 2019 16:06

Tgt Ion: 62 Resp: 79632

Ion Ratio Lower Upper

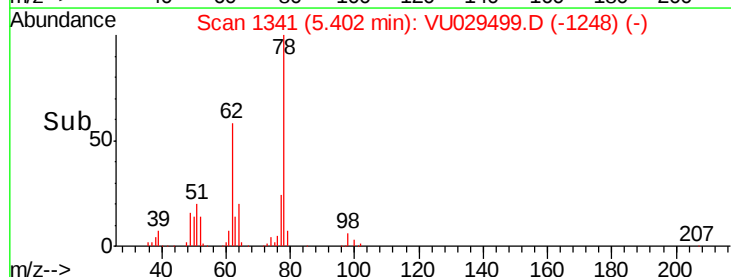
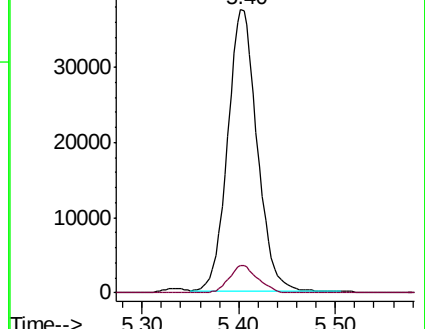
62 100

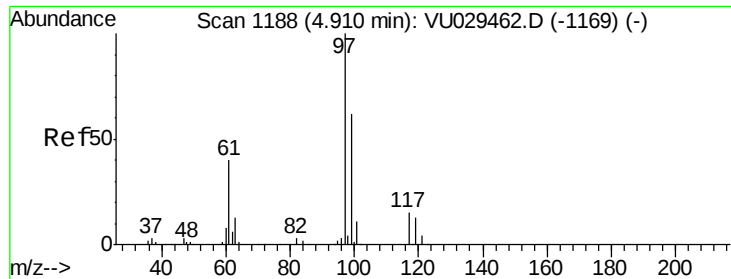
98 9.9 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU029462.D (-1325) (-)

Ion 98.05 (97.75 to 98.75): VU029462.D (-1325) (-)

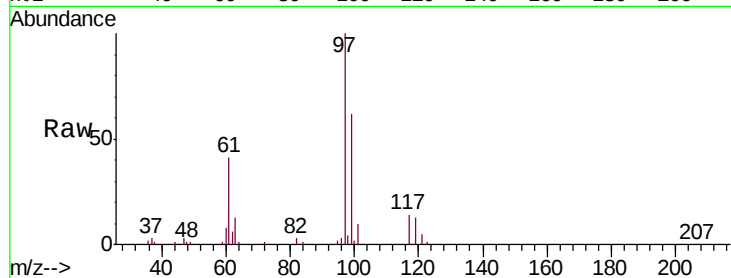




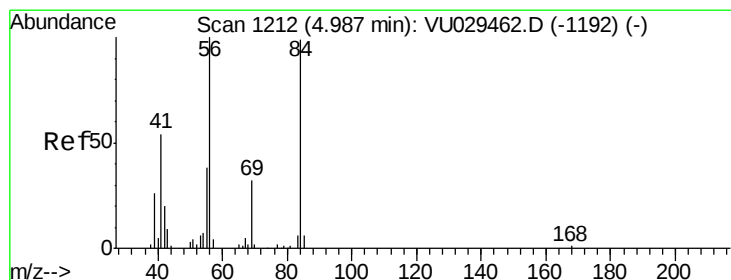
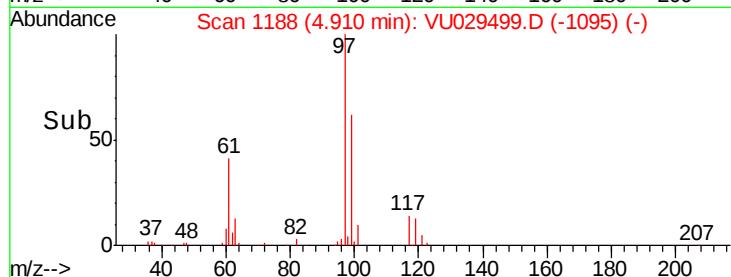
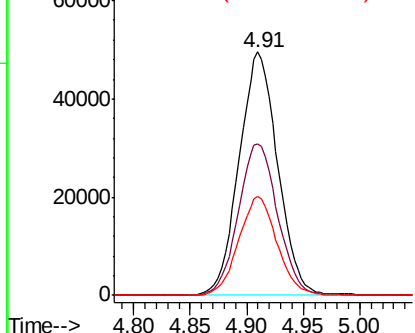
#29
 1,1,1-Trichloroethane
 Concen: 4.754 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

Tgt Ion: 97 Resp: 117438
 Ion Ratio Lower Upper
 97 100
 99 63.8 52.2 78.2
 61 40.2 32.0 48.0

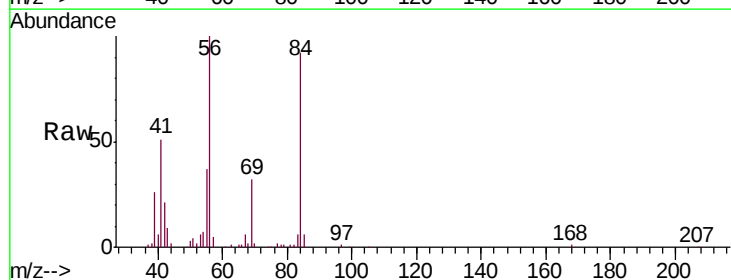


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

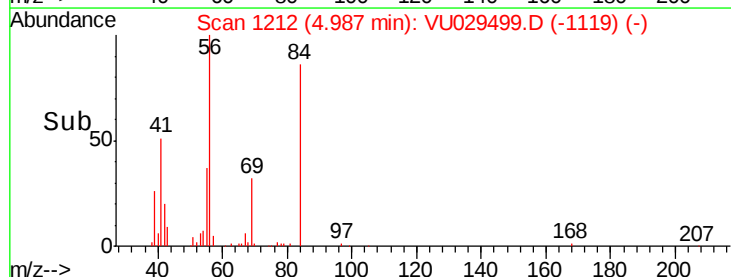
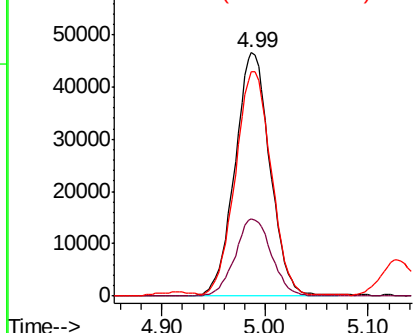


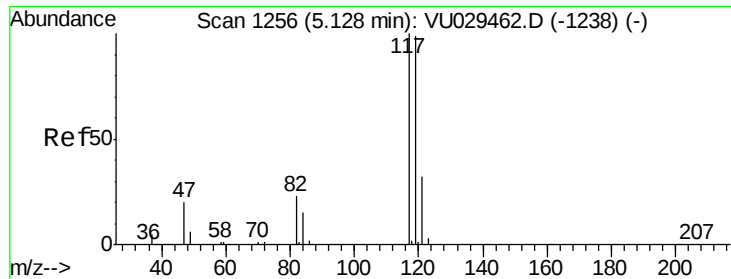
#30
 Cyclohexane
 Concen: 4.663 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion: 56 Resp: 110371
 Ion Ratio Lower Upper
 56 100
 69 32.6 25.8 38.6
 84 93.2 75.0 112.6



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





#31

Carbon tetrachloride

Concen: 4.682 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

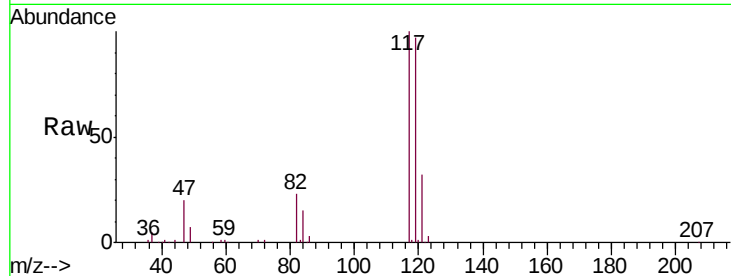
VSTD00558

Tgt Ion:117 Resp: 104499

Ion Ratio Lower Upper

117 100

119 95.6 78.1 117.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.13

50000

40000

30000

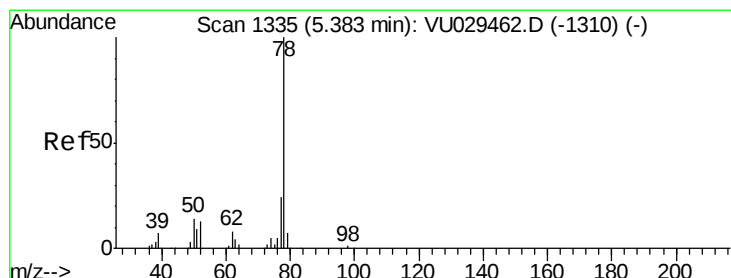
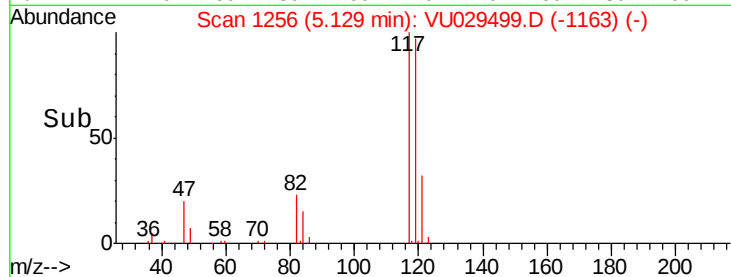
20000

10000

0

Time-->

5.10 5.20



#33

Benzene

Concen: 4.830 ug/L

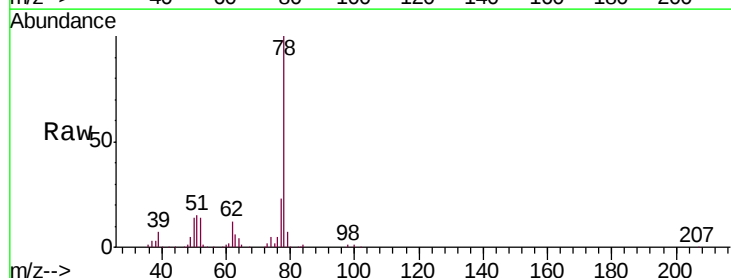
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Tgt Ion: 78 Resp: 283892



Abundance Ion 78.10 (77.80 to 78.80): VU0

150000

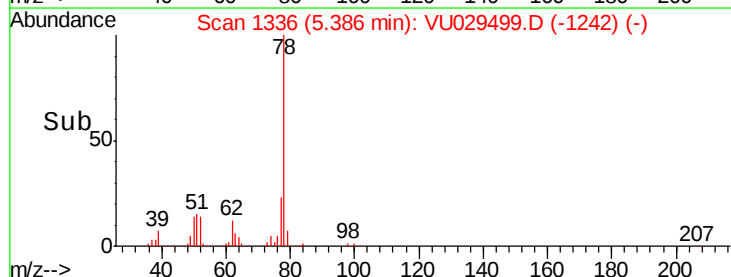
100000

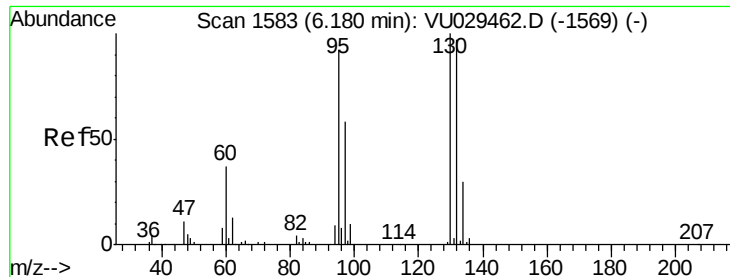
50000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 4.888 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

Tgt Ion: 95 Resp: 80780

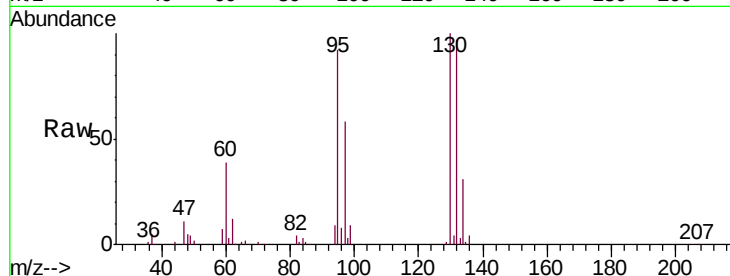
Ion Ratio Lower Upper

95 100

97 62.8 46.3 86.1

132 105.4 72.9 135.3

130 108.8 79.2 147.0

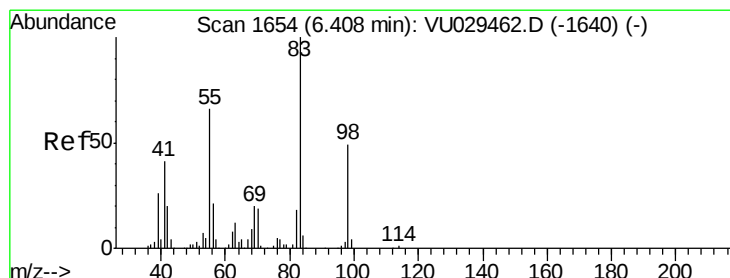
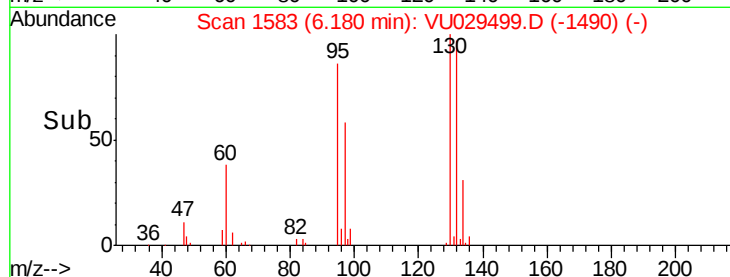
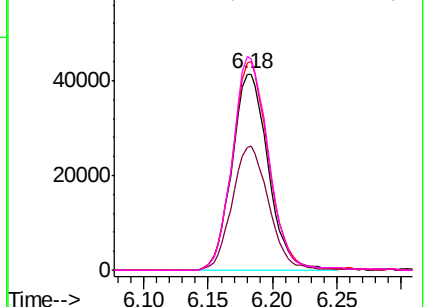


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.763 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

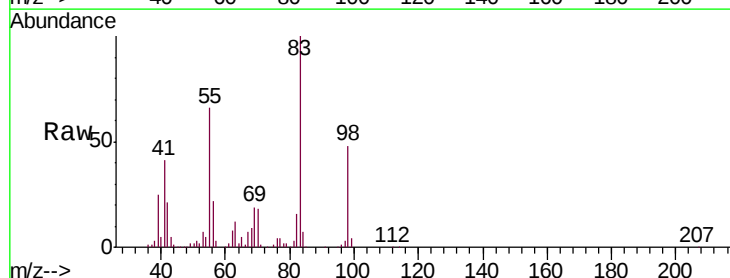
Tgt Ion: 83 Resp: 132430

Ion Ratio Lower Upper

83 100

55 68.4 55.9 83.9

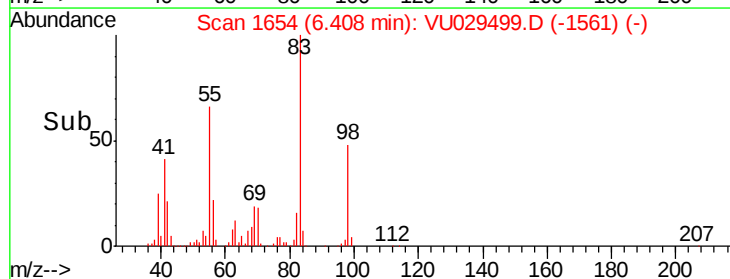
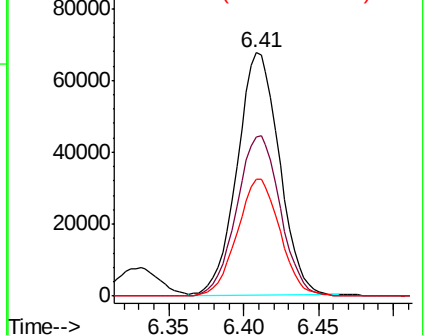
98 49.0 38.6 57.8

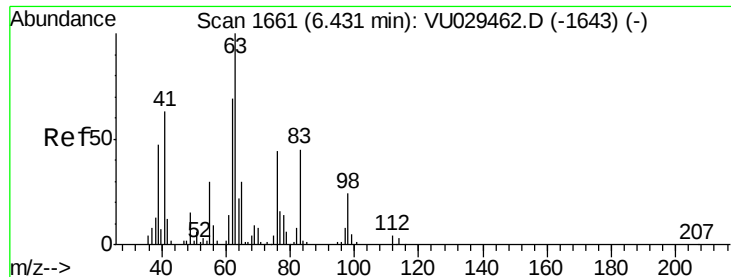


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.920 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

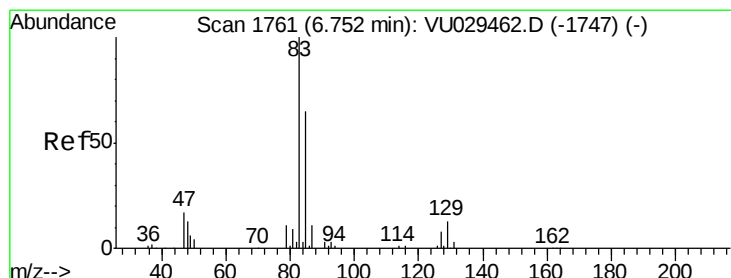
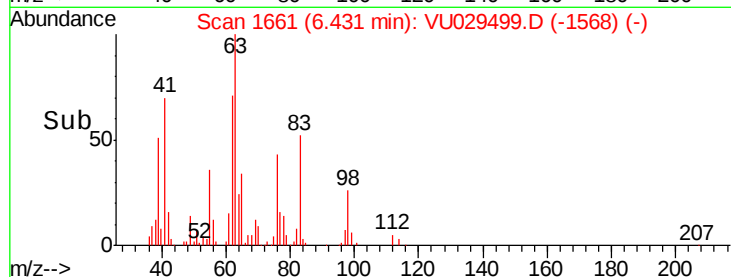
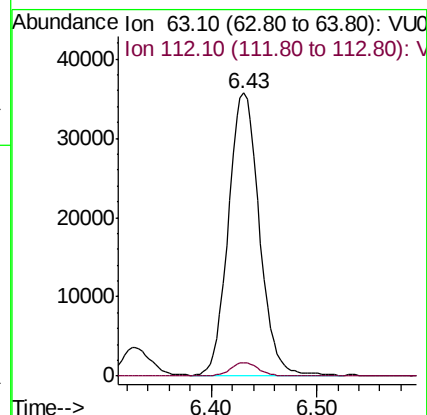
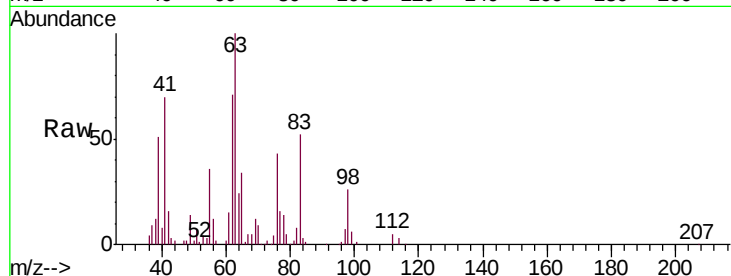
VSTD00558

Tgt Ion: 63 Resp: 72432

Ion Ratio Lower Upper

63 100

112 4.3 3.5 5.3



#38

Bromodichloromethane

Concen: 4.816 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

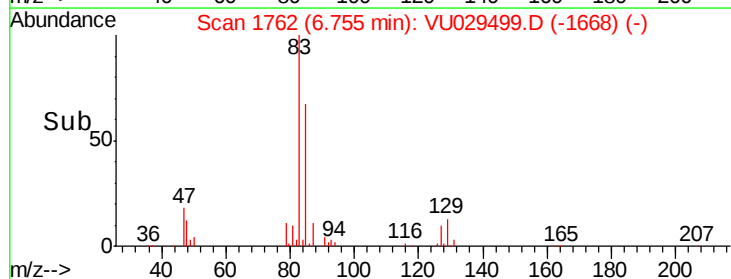
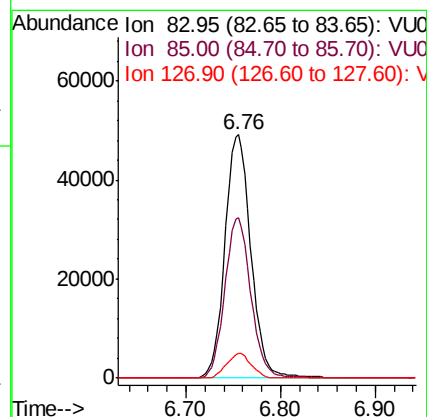
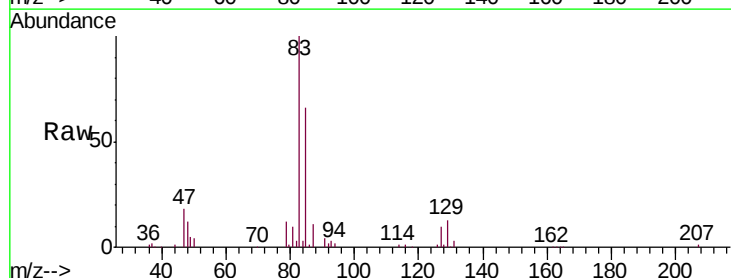
Tgt Ion: 83 Resp: 93694

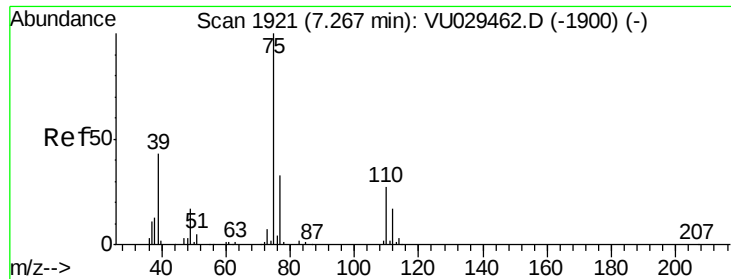
Ion Ratio Lower Upper

83 100

85 66.1 45.1 83.7

127 10.3 7.8 11.8

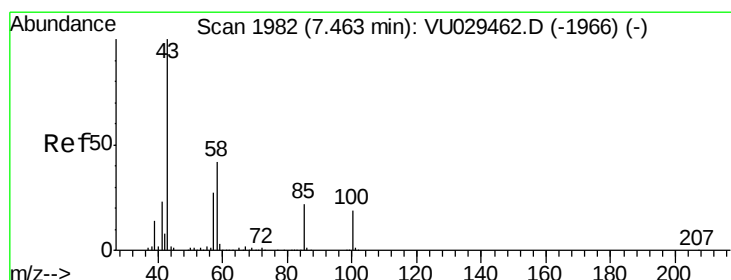
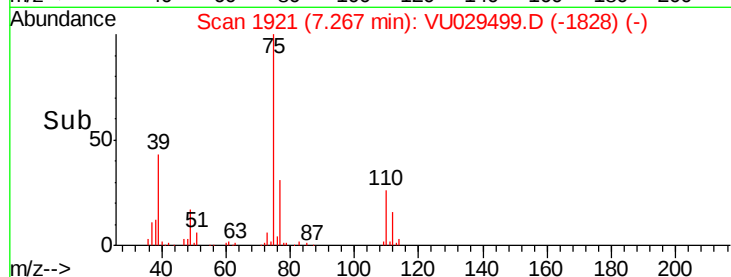
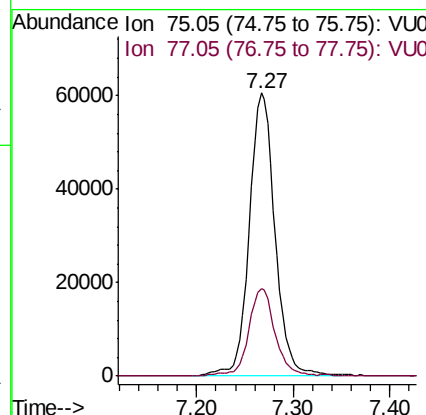
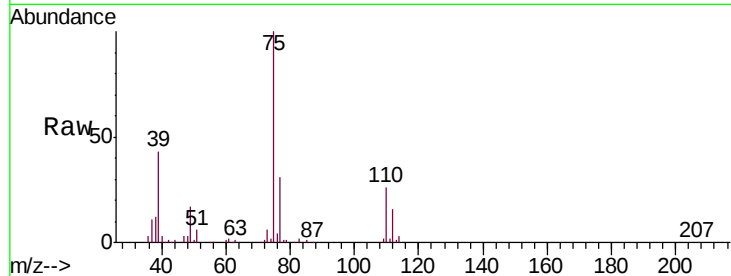




#39
 cis-1,3-Dichloropropene
 Concen: 4.837 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

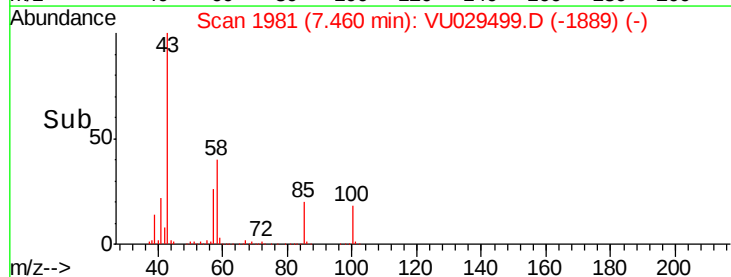
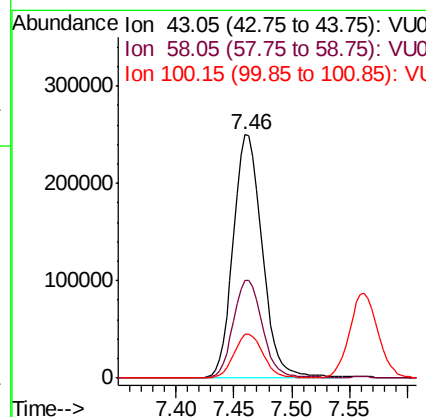
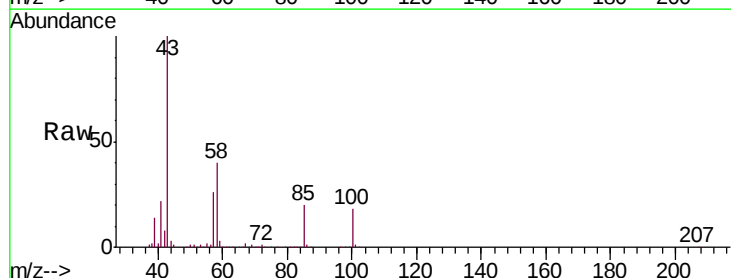
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

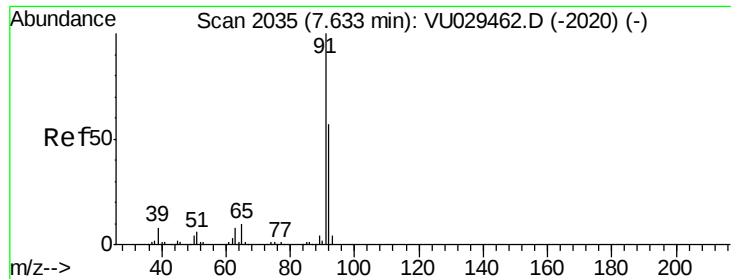
Tgt Ion: 75 Resp: 112083
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 51.350 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion: 43 Resp: 435810
 Ion Ratio Lower Upper
 43 100
 58 40.5 33.4 50.2
 100 18.1 14.4 21.6





#42

Toluene

Concen: 5.023 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

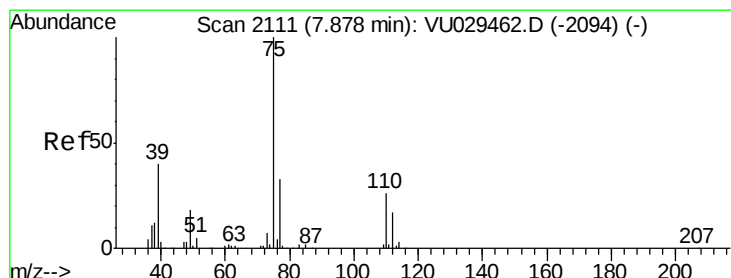
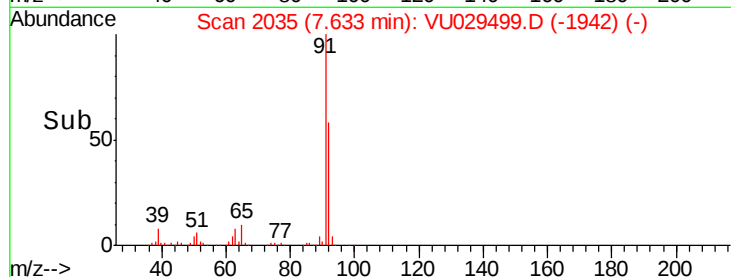
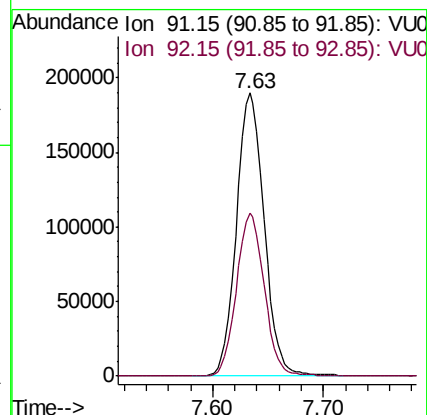
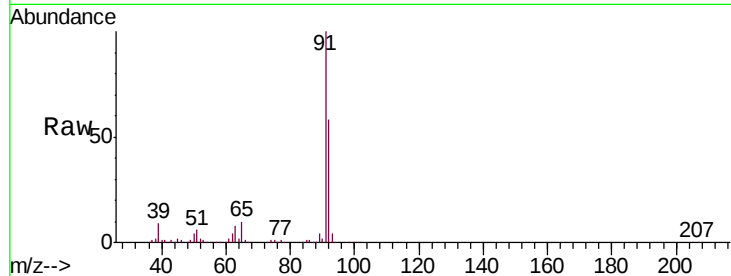
VSTD00558

Tgt Ion: 91 Resp: 331408

Ion Ratio Lower Upper

91 100

92 57.8 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 4.909 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029499.D

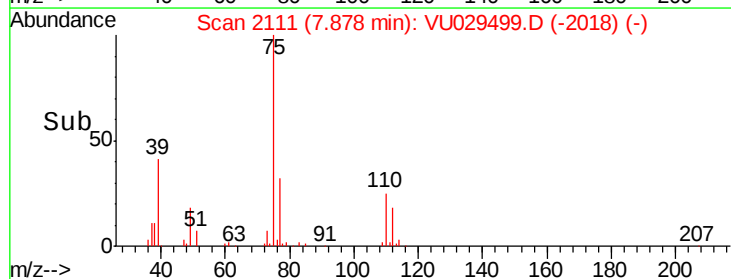
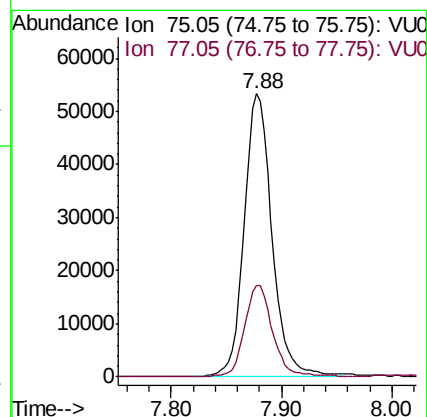
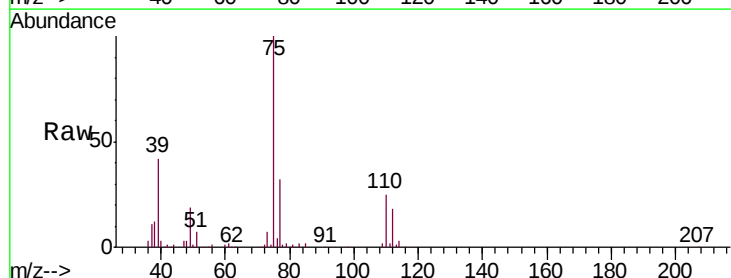
Acq: 15 Feb 2019 16:06

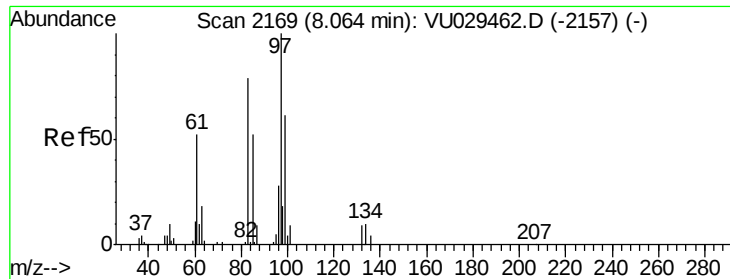
Tgt Ion: 75 Resp: 93419

Ion Ratio Lower Upper

75 100

77 32.3 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 5.173 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

Tgt Ion: 97 Resp: 58337

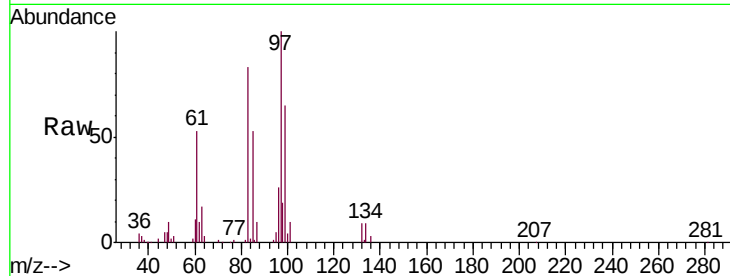
Ion Ratio Lower Upper

97 100

99 64.7 41.6 77.2

83 83.4 55.8 103.6

85 53.0 37.2 69.0

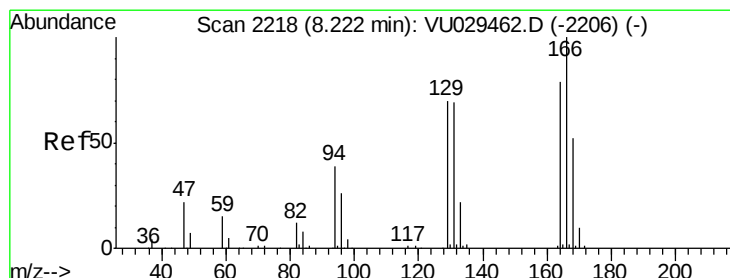
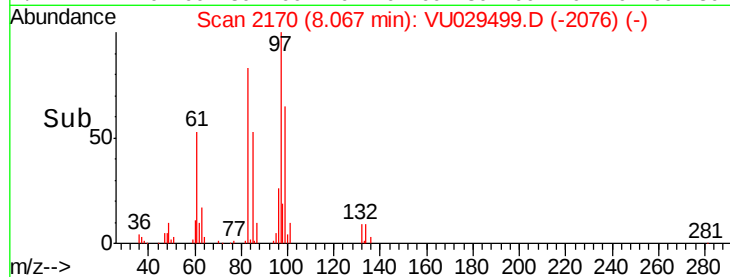
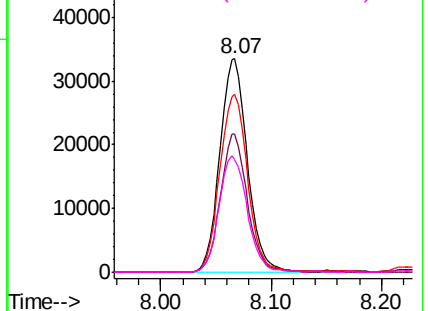


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 5.200 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Tgt Ion: 164 Resp: 78721

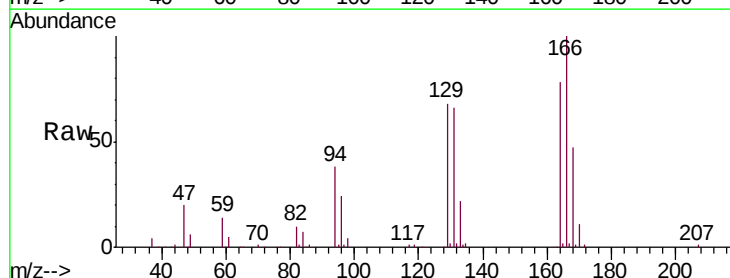
Ion Ratio Lower Upper

164 100

129 87.4 62.9 116.9

131 85.4 62.1 115.3

166 128.6 89.8 166.8

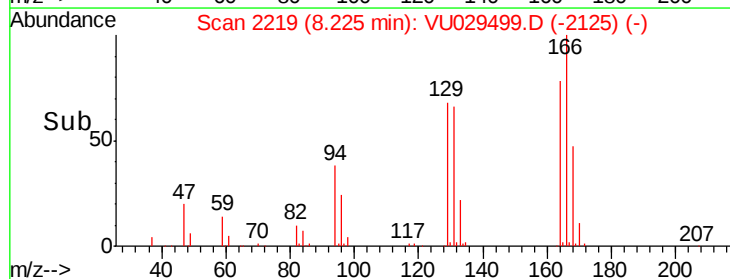
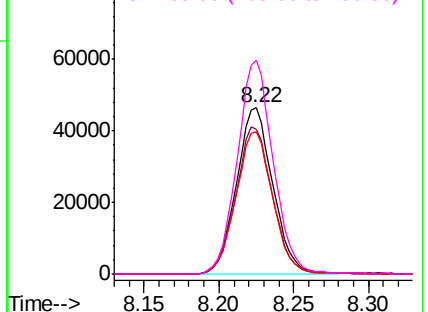


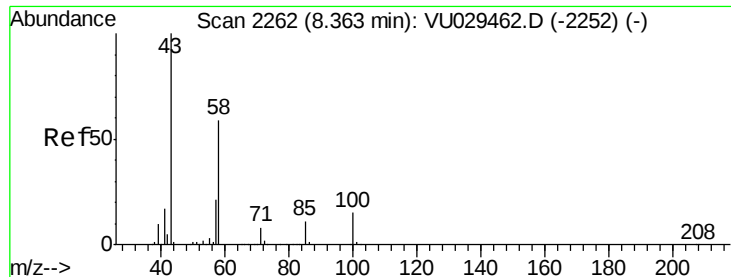
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

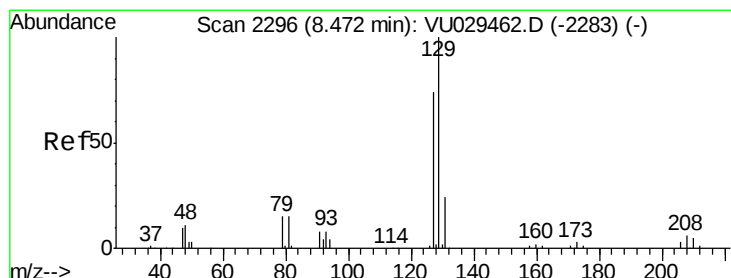
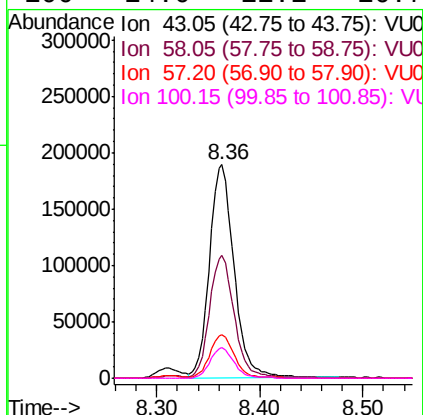
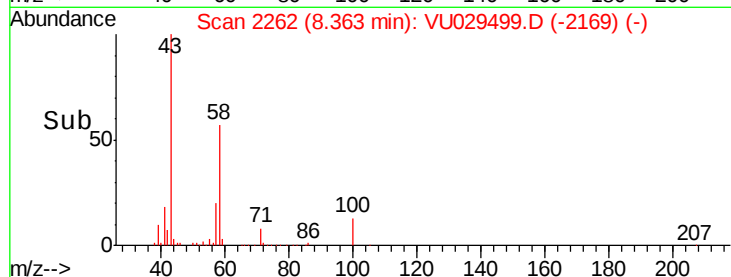
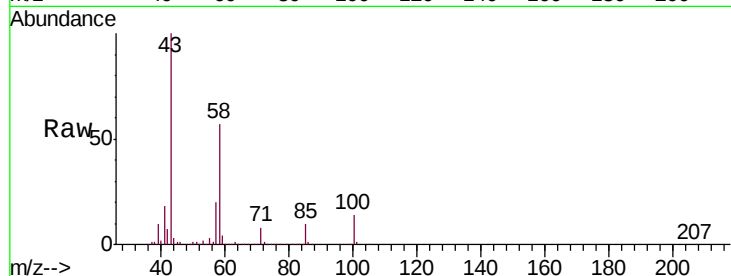




#48
2-Hexanone
Concen: 50.598 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

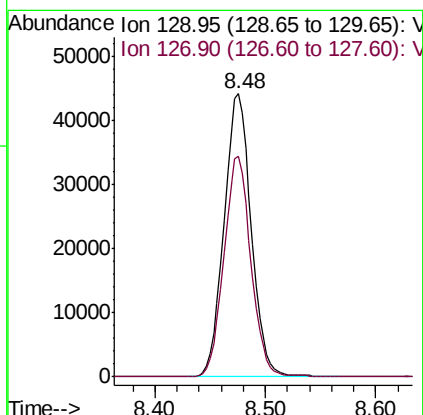
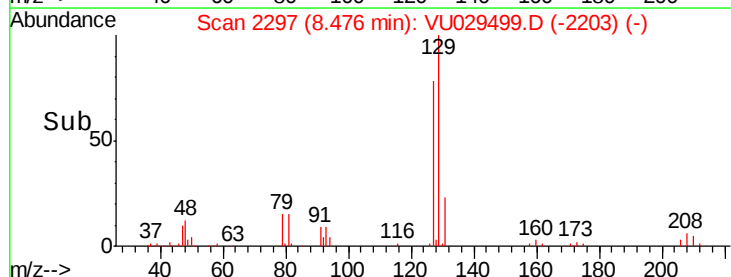
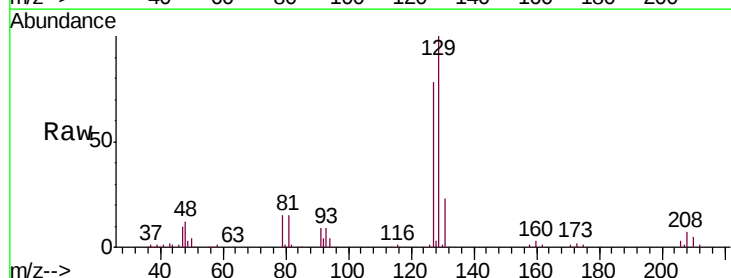
Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

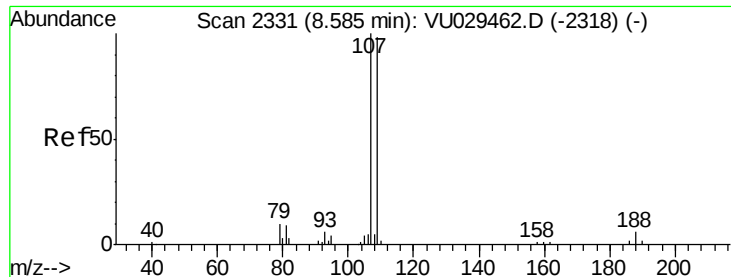
Tgt Ion: 43 Resp: 312978
Ion Ratio Lower Upper
43 100
58 57.3 45.7 68.5
57 20.3 16.4 24.6
100 14.0 11.1 16.7



#49
Dibromochloromethane
Concen: 4.975 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

Tgt Ion: 129 Resp: 75616
Ion Ratio Lower Upper
129 100
127 78.1 53.3 99.1

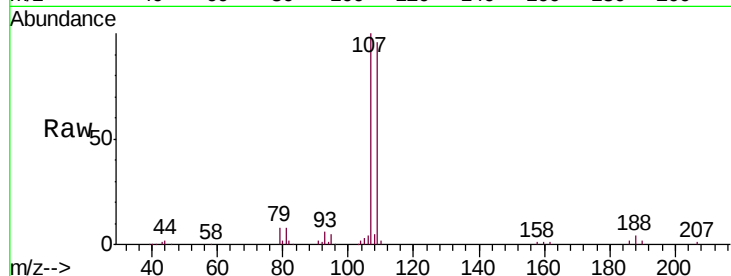




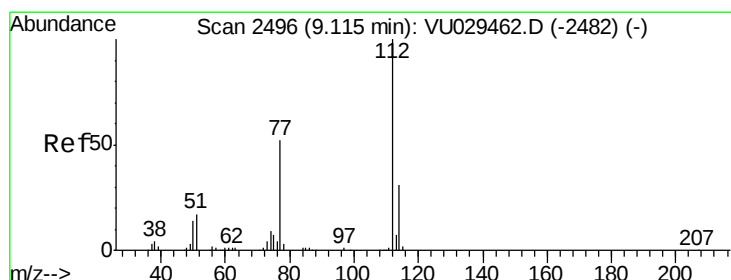
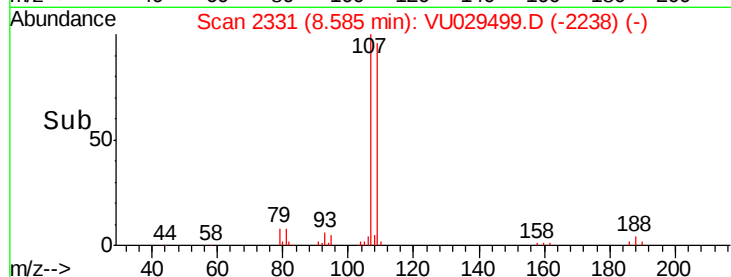
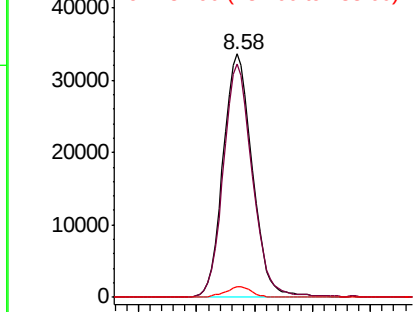
#50
1,2-Dibromoethane
Concen: 5.241 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

Tgt Ion:107 Resp: 58497
Ion Ratio Lower Upper
107 100
109 95.7 64.1 119.1
188 4.2 3.7 5.5

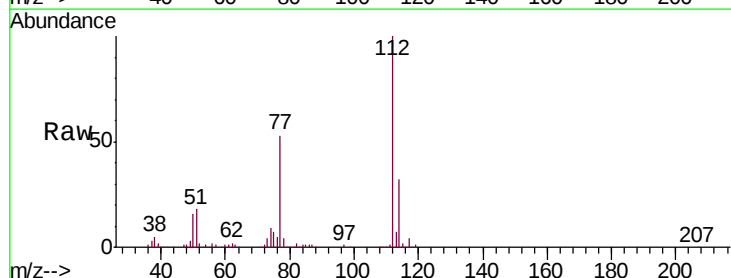


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

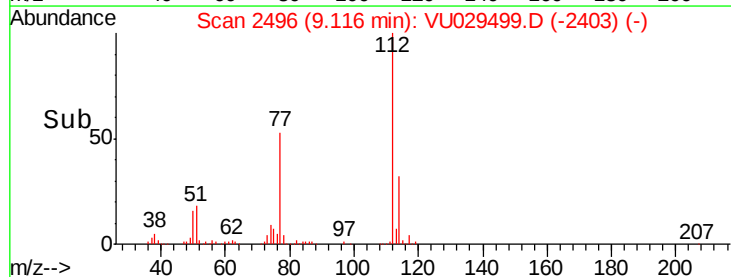
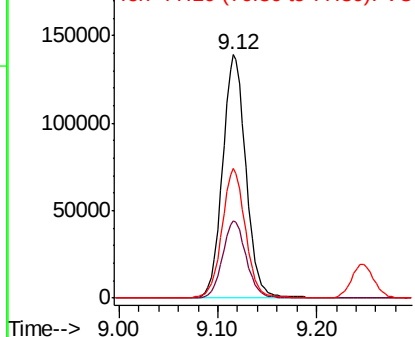


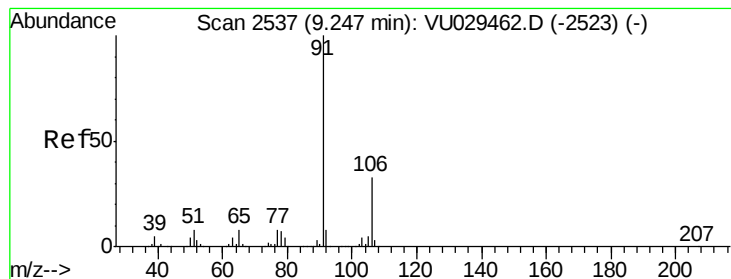
#51
Chlorobenzene
Concen: 5.106 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

Tgt Ion:112 Resp: 231689
Ion Ratio Lower Upper
112 100
114 32.0 22.9 42.5
77 53.1 41.8 62.6



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





#52

Ethylbenzene

Concen: 5.081 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

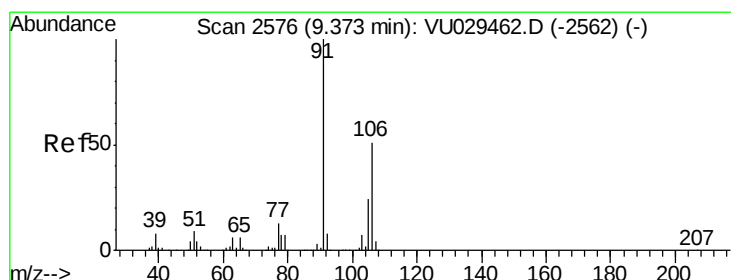
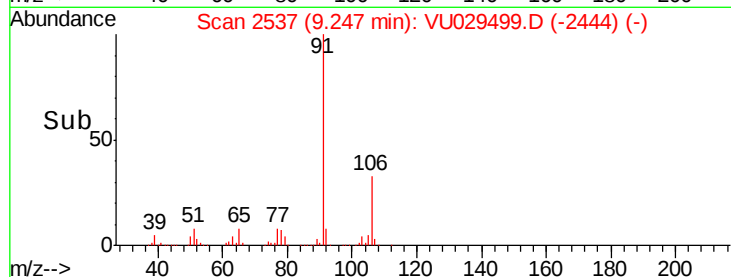
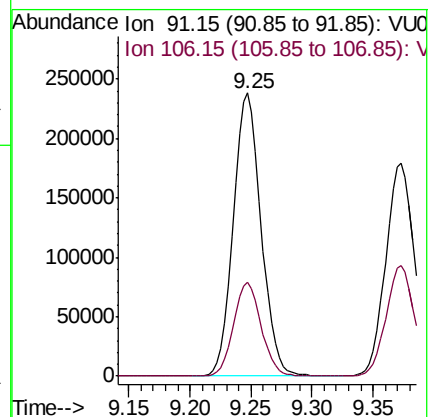
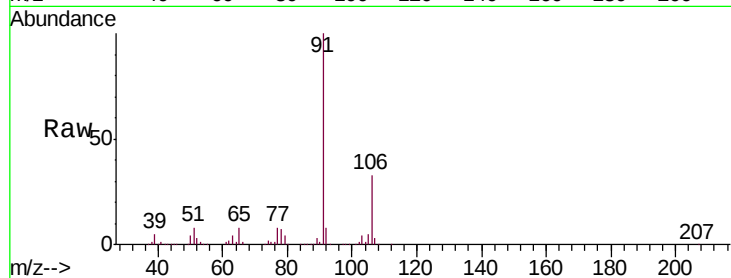
VSTD00558

Tgt Ion: 91 Resp: 379604

Ion Ratio Lower Upper

91 100

106 33.1 22.8 42.4



#53

m,p-xylene

Concen: 5.143 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029499.D

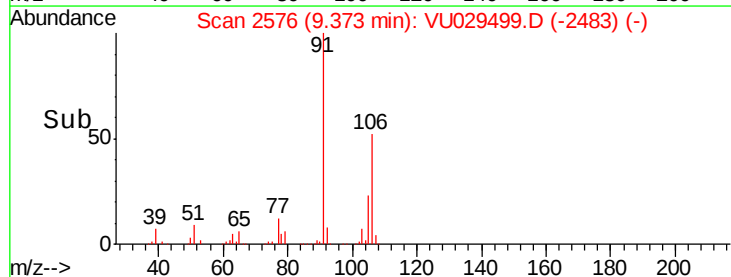
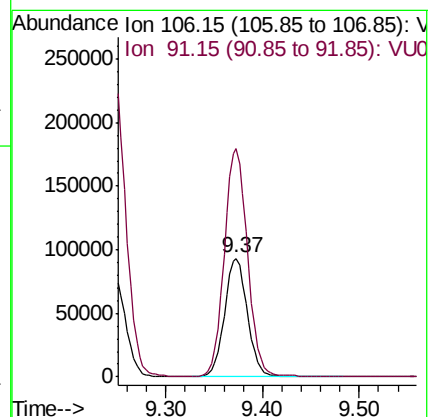
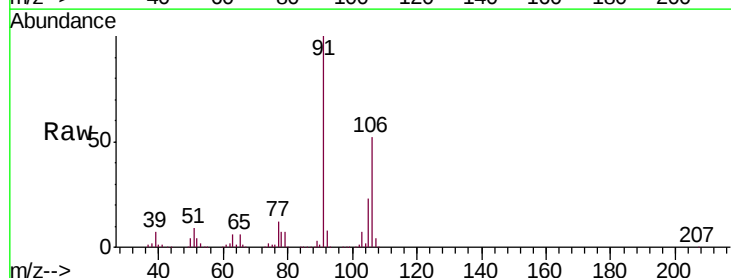
Acq: 15 Feb 2019 16:06

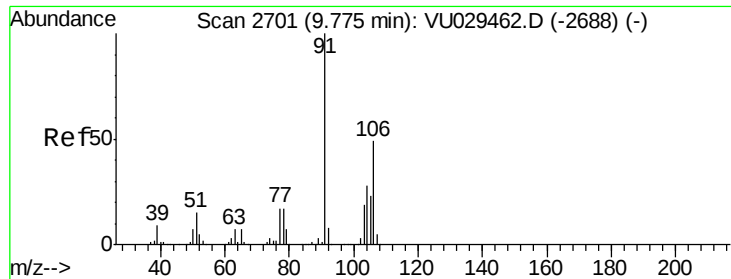
Tgt Ion: 106 Resp: 153219

Ion Ratio Lower Upper

106 100

91 192.3 135.7 251.9

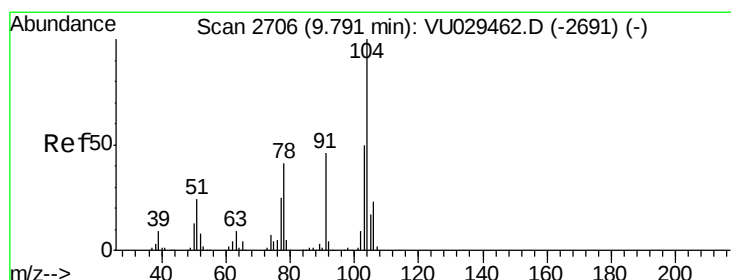
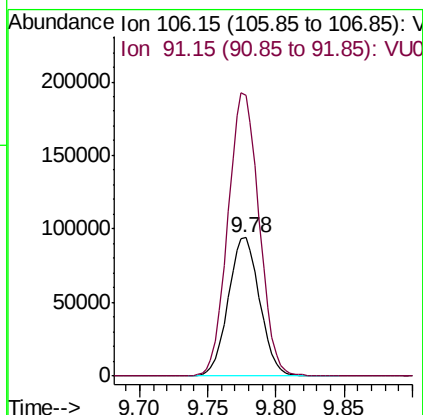
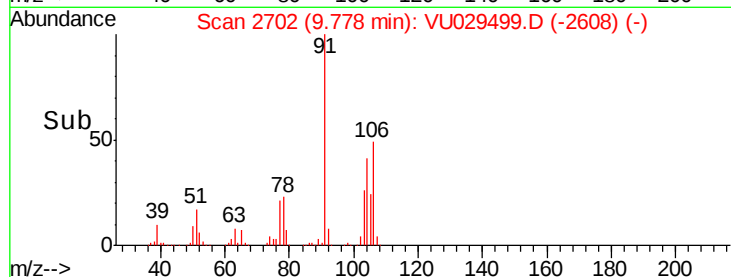
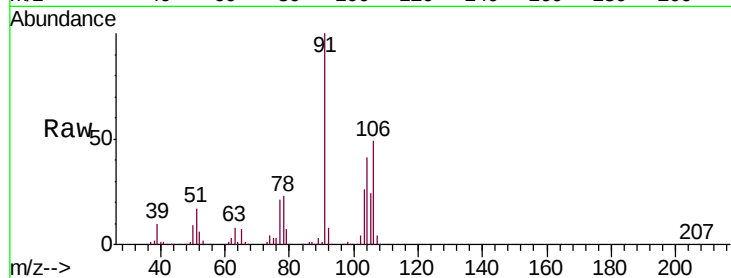




#54
o-xylene
Concen: 5.164 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

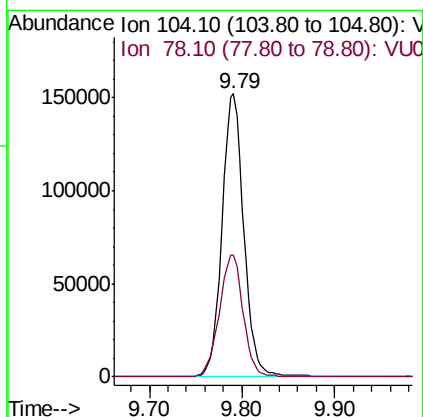
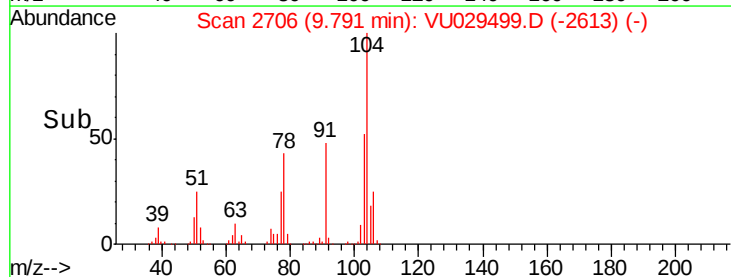
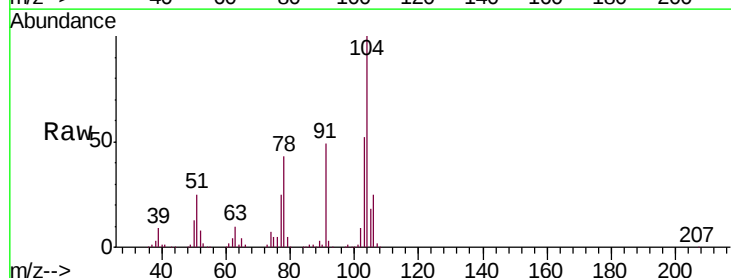
Instrument :
MSVOA_U
ClientSampleId :
VSTD00558

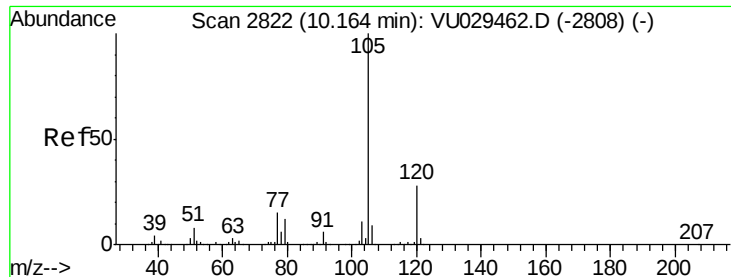
Tgt Ion:106 Resp: 150997
Ion Ratio Lower Upper
106 100
91 202.9 145.1 269.5



#55
Styrene
Concen: 5.111 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU029499.D
Acq: 15 Feb 2019 16:06

Tgt Ion:104 Resp: 248110
Ion Ratio Lower Upper
104 100
78 43.2 30.5 56.7





#56

Isopropylbenzene

Concen: 5.184 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

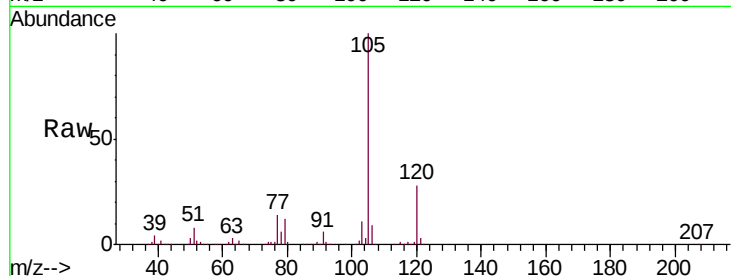
Tgt Ion: 105 Resp: 399850

Ion Ratio Lower Upper

105 100

120 28.1 22.2 33.4

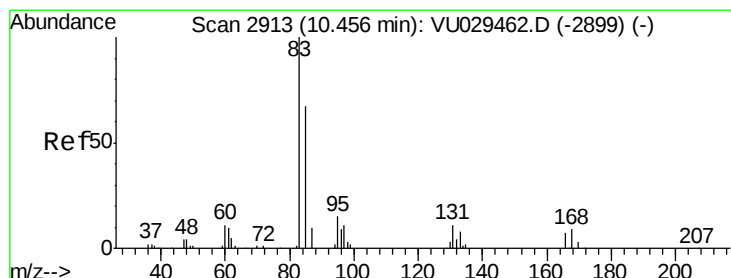
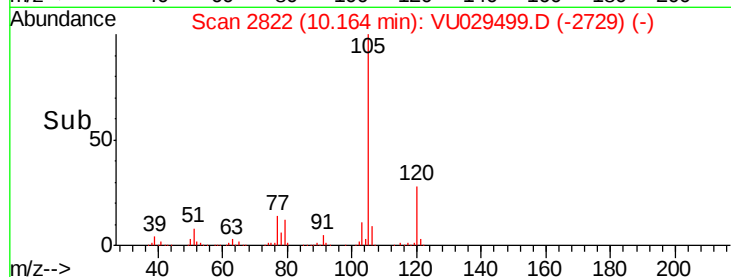
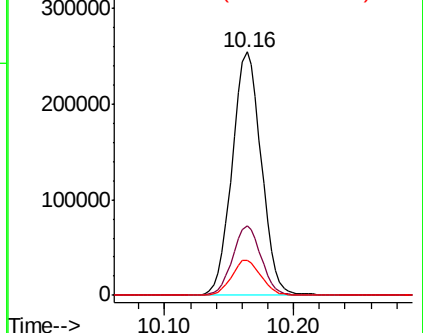
77 14.5 11.5 17.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.329 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

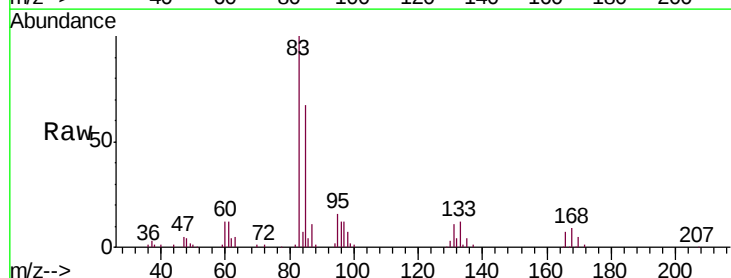
Tgt Ion: 83 Resp: 73345

Ion Ratio Lower Upper

83 100

85 66.6 46.5 86.3

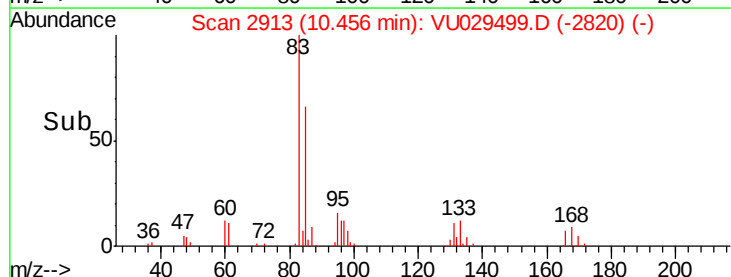
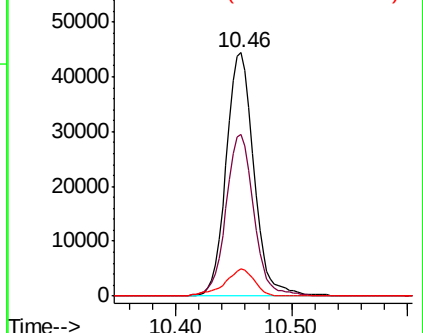
131 11.0 8.3 12.5

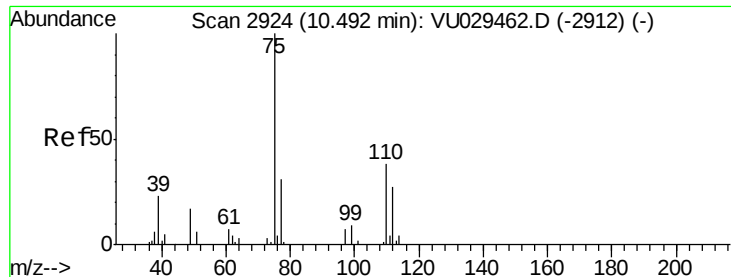


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

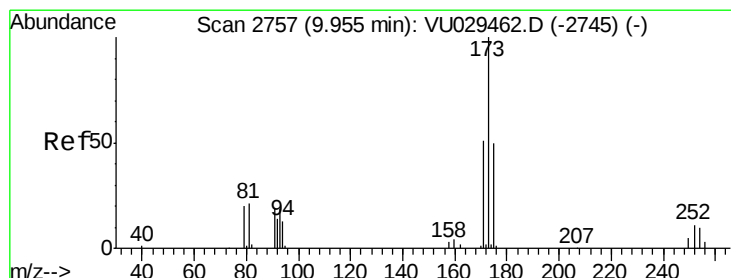
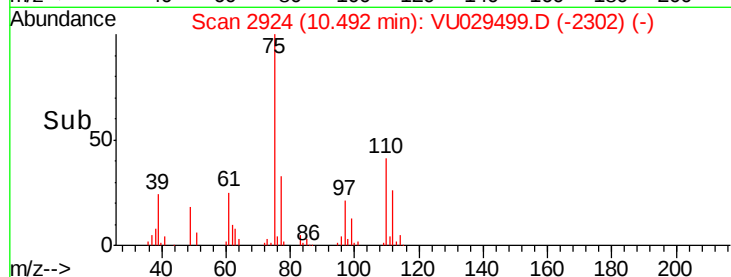
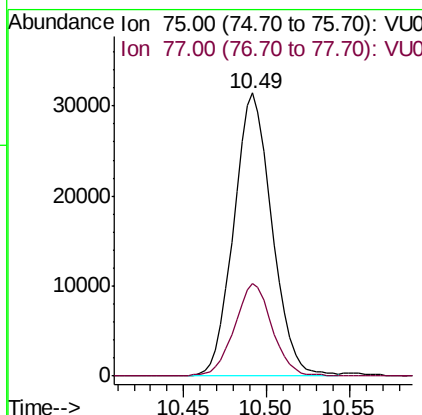
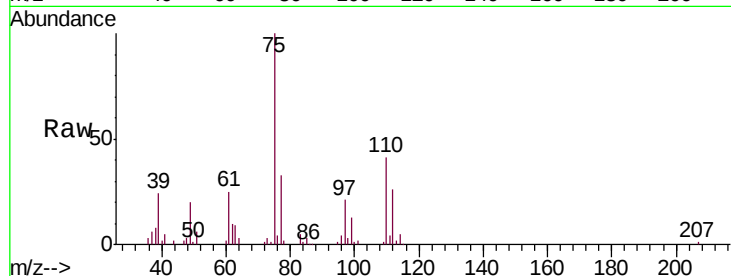




#59
 1,2,3-Trichloropropane
 Concen: 5.326 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

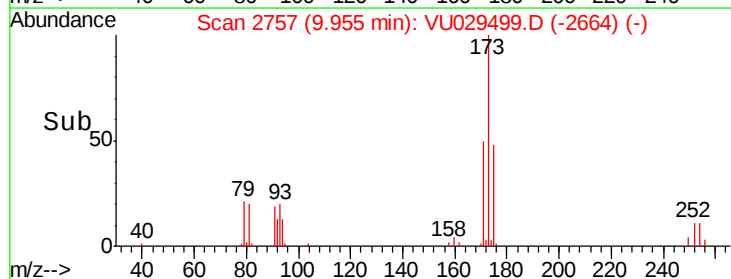
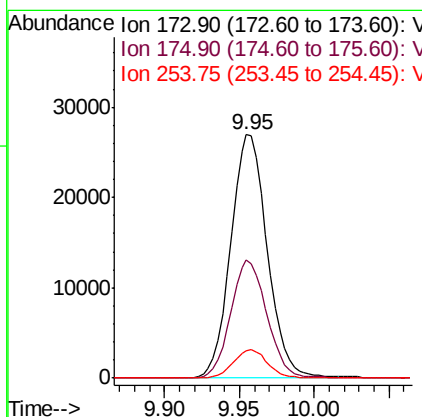
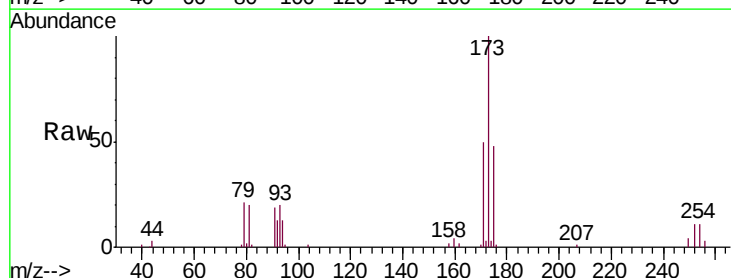
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

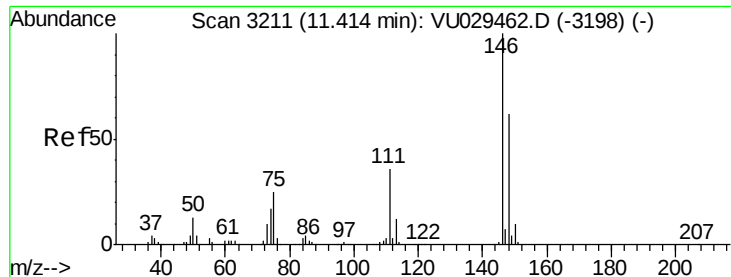
Tgt Ion: 75 Resp: 50300
 Ion Ratio Lower Upper
 75 100
 77 32.2 28.2 42.2



#61
 Bromoform
 Concen: 4.825 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion: 173 Resp: 45807
 Ion Ratio Lower Upper
 173 100
 175 47.8 39.2 58.8
 254 10.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.084 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

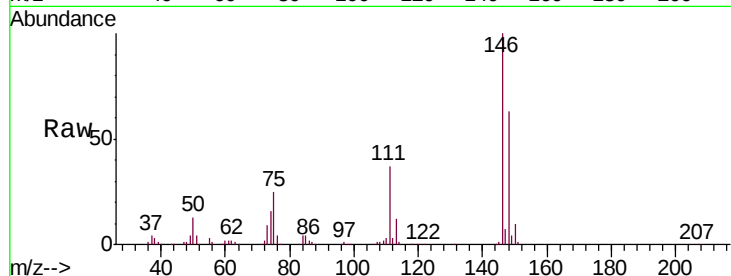
Tgt Ion:146 Resp: 201993

Ion Ratio Lower Upper

146 100

111 37.2 26.1 48.5

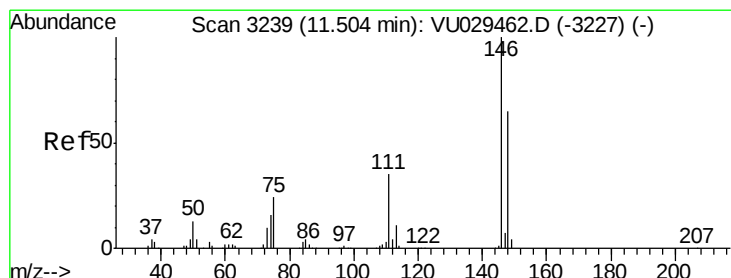
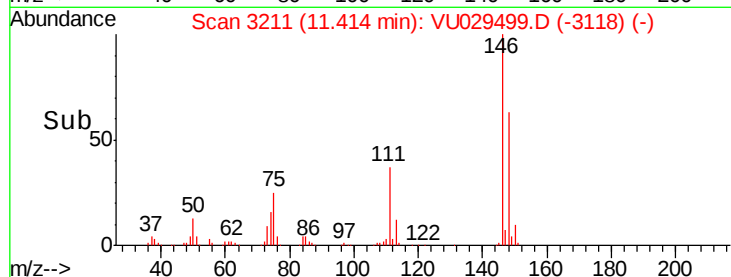
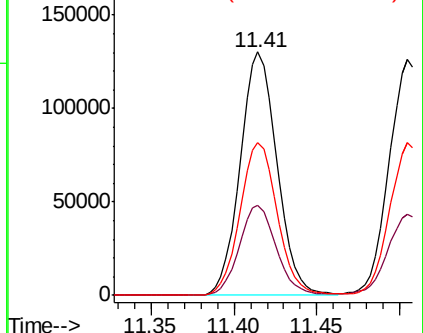
148 62.9 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.108 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

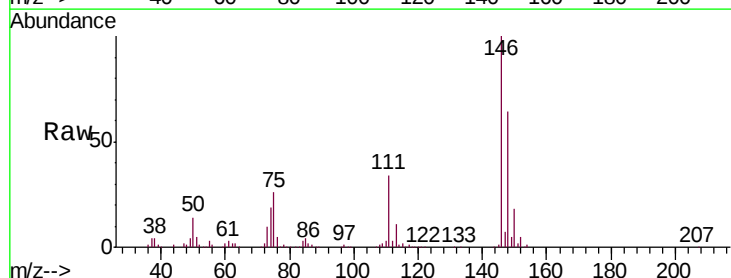
Tgt Ion:146 Resp: 202698

Ion Ratio Lower Upper

146 100

111 34.1 25.6 47.6

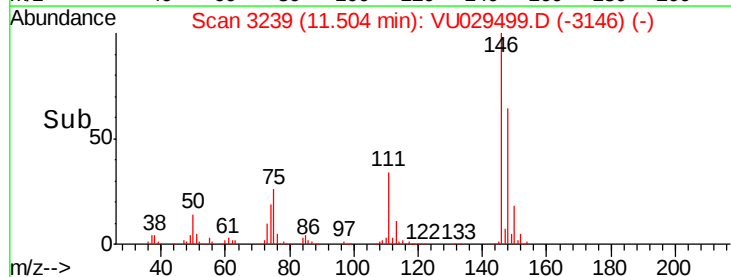
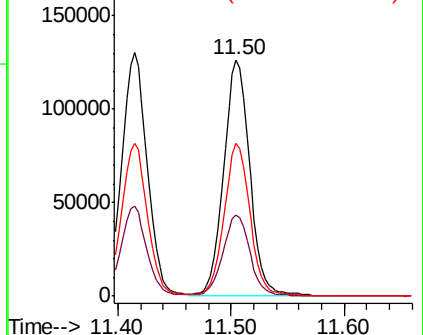
148 64.4 44.2 82.0

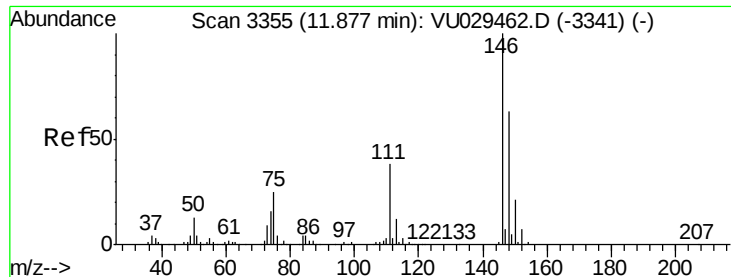


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

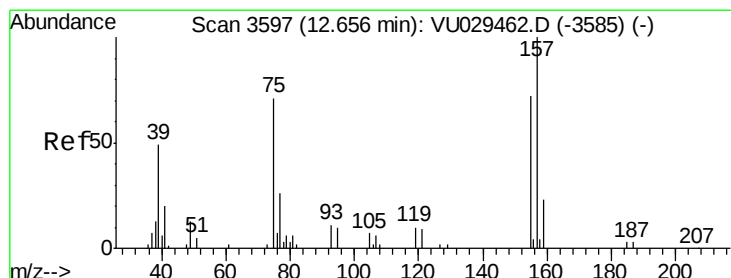
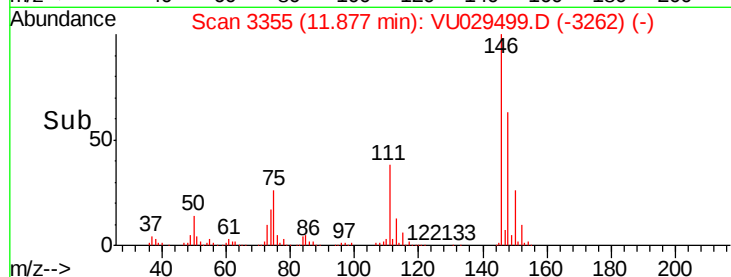
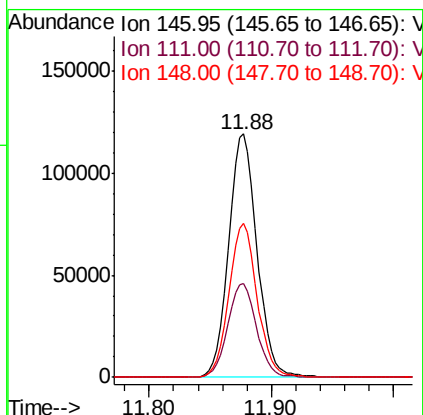
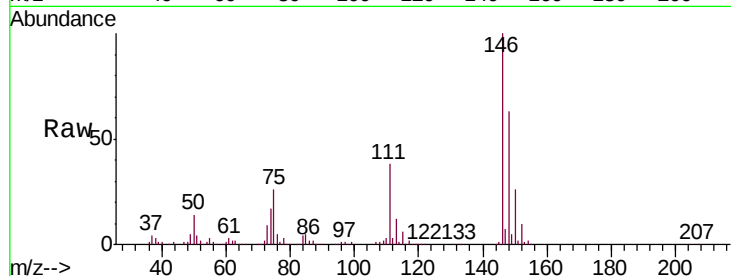




#65
 1,2-Dichlorobenzene
 Concen: 5.174 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

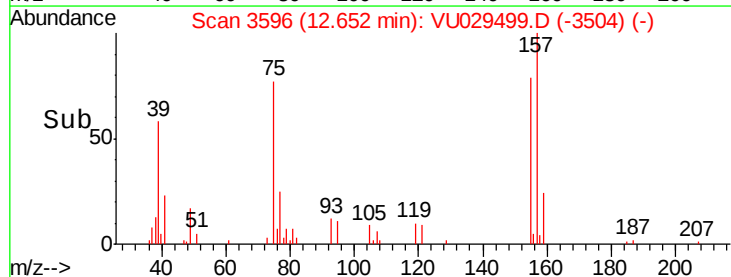
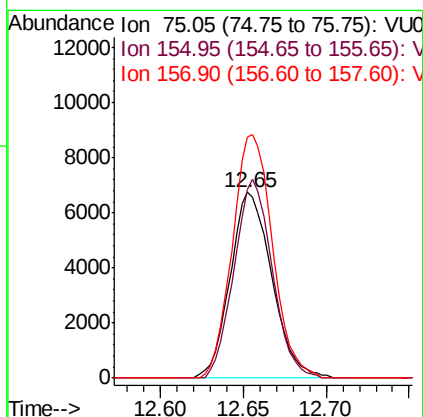
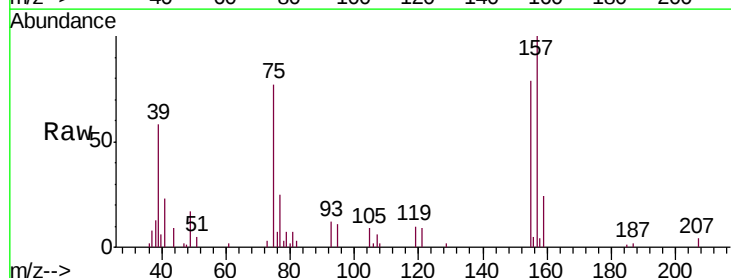
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

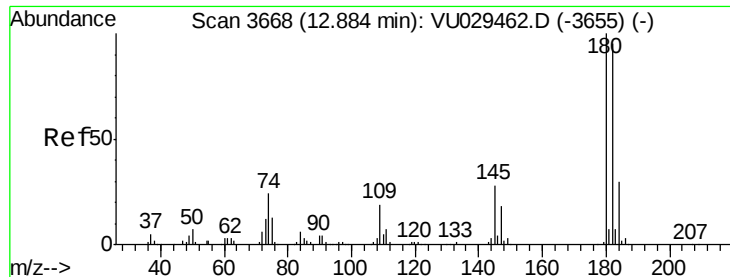
Tgt Ion: 146 Resp: 193727
 Ion Ratio Lower Upper
 146 100
 111 38.4 30.9 46.3
 148 63.2 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.037 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion: 75 Resp: 11797
 Ion Ratio Lower Upper
 75 100
 155 101.8 75.3 112.9
 157 129.5 103.0 154.4

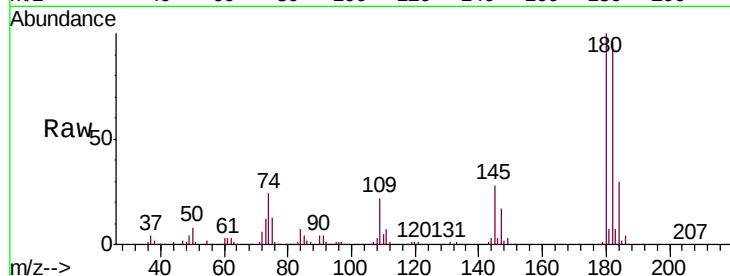




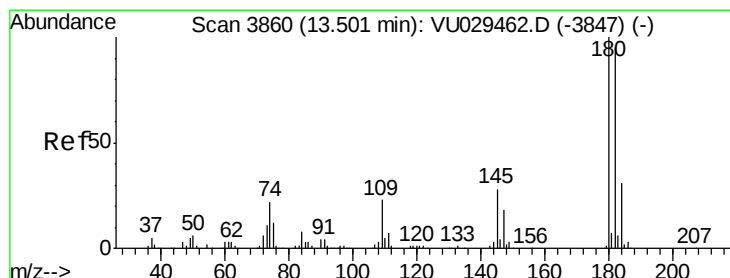
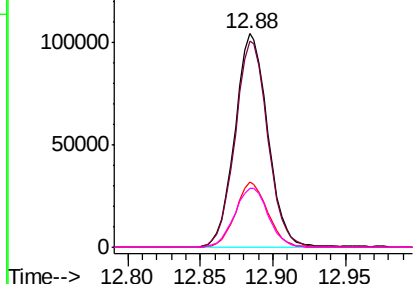
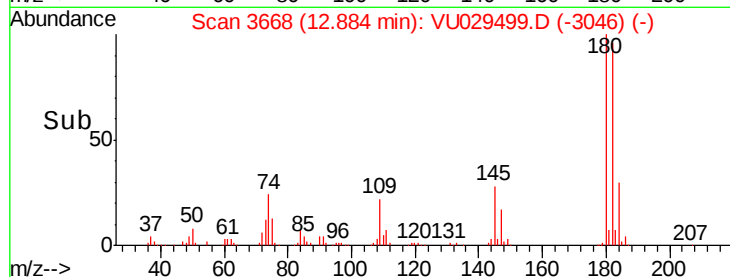
#67
 1,3,5-Trichlorobenzene
 Concen: 4.971 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00558

Tgt Ion:180 Resp: 163878
 Ion Ratio Lower Upper
 180 100
 182 96.6 76.0 114.0
 184 30.1 24.1 36.1
 145 28.6 22.6 34.0

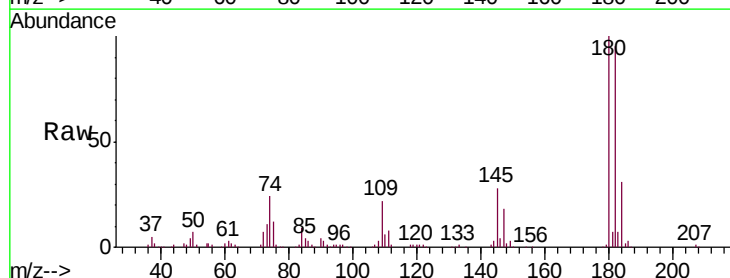


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

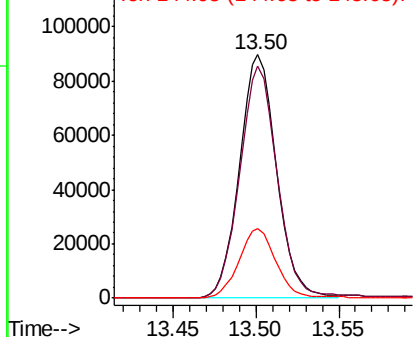
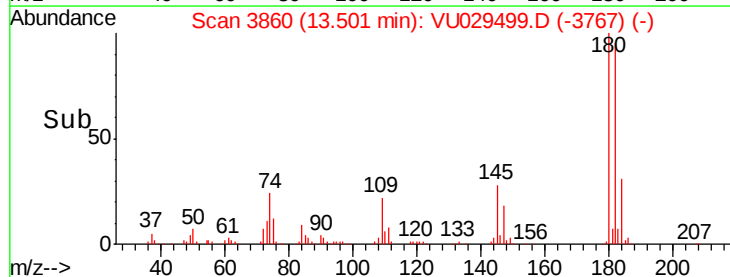


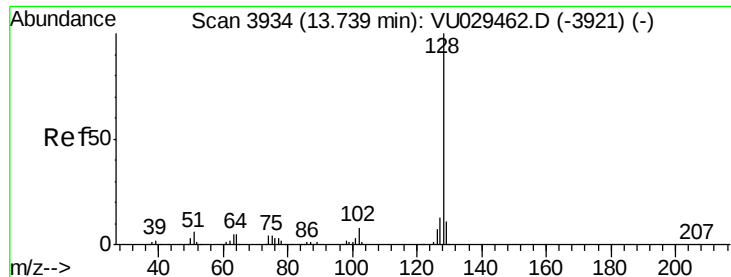
#68
 1,2,4-trichlorobenzene
 Concen: 5.028 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU029499.D
 Acq: 15 Feb 2019 16:06

Tgt Ion:180 Resp: 139620
 Ion Ratio Lower Upper
 180 100
 182 96.9 77.1 115.7
 145 29.0 23.1 34.7



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





#69

Naphthalene

Concen: 5.078 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00558

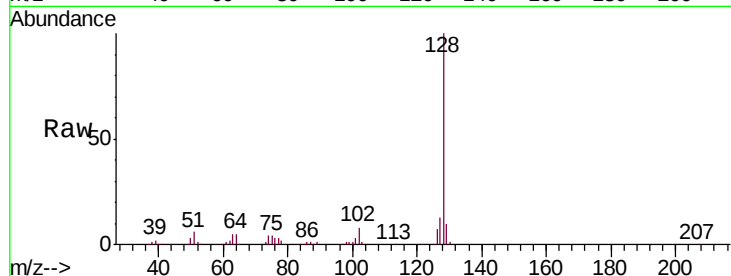
Tgt Ion:128 Resp: 243520

Ion Ratio Lower Upper

128 100

129 10.5 8.7 13.1

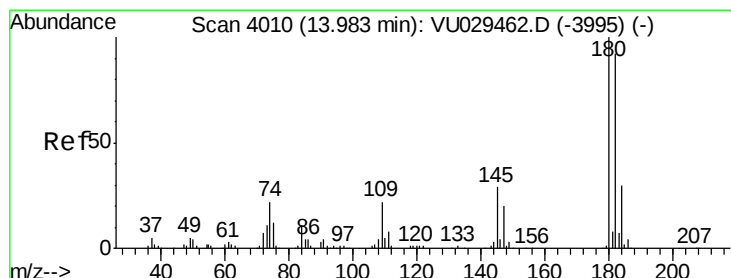
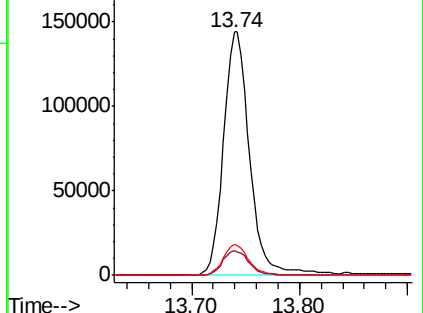
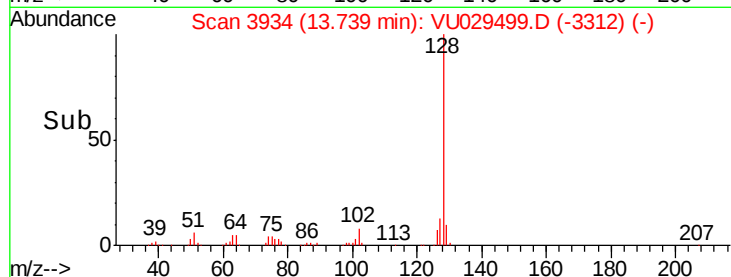
127 12.3 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.956 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU029499.D

Acq: 15 Feb 2019 16:06

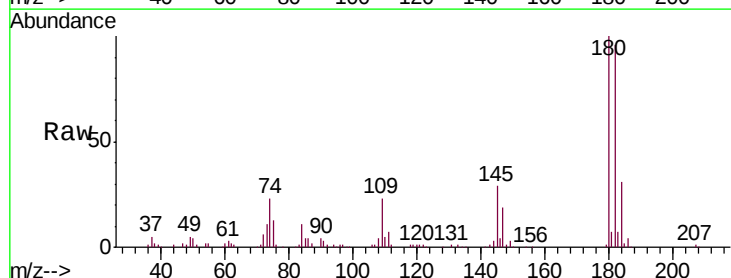
Tgt Ion:180 Resp: 131574

Ion Ratio Lower Upper

180 100

182 97.0 75.9 113.9

145 30.2 23.8 35.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

