

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\
 Data File : VU031153.D
 Acq On : 13 Apr 2019 11:15
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Quant Time: Apr 13 22:26:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 13 01:01:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	417963	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	422543	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	192201	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	187705	50.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.62%
7) Chloroethane-d5	1.67	69	143817	50.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.58%
11) 1,1-Dichloroethene-d2	2.27	63	345015	51.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.26%
21) 2-Butanone-d5	4.17	46	294943	99.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.74%
24) Chloroform-d	4.64	84	317946	55.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.58%
26) 1,2-Dichloroethane-d4	5.30	65	206636	53.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.26%
32) Benzene-d6	5.33	84	627587	50.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.76%
36) 1,2-Dichloropropane-d6	6.32	67	212144	50.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.36%
41) Toluene-d8	7.56	98	569943	52.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.26%
43) trans-1,3-Dichloropropene-	7.85	79	94395	48.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.94%
47) 2-Hexanone-d5	8.31	63	187725	97.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.16%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	294129	51.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.16%
64) 1,2-Dichlorobenzene-d4	11.85	152	200632	53.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.16%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	185054	50.404	ug/L 100
3) Chloromethane	1.32	50	220405	46.412	ug/L 100
5) Vinyl chloride	1.40	62	228254	49.654	ug/L 98
6) Bromomethane	1.62	94	113332	47.586	ug/L 99
8) Chloroethane	1.69	64	131677	50.222	ug/L 99
9) Trichlorofluoromethane	1.88	101	291914	54.499	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	161798	54.062	ug/L 98
12) 1,1-Dichloroethene	2.28	96	149849	51.866	ug/L 94
13) Acetone	2.32	43	343747	113.601	ug/L 100
14) Carbon disulfide	2.47	76	425417	47.399	ug/L 97
15) Methyl Acetate	2.61	43	241017	51.372	ug/L 99
16) Methylene chloride	2.69	84	187021	53.286	ug/L 94
17) trans-1,2-Dichloroethene	2.98	96	158632	51.711	ug/L 95
18) Methyl tert-butyl Ether	2.99	73	533825	51.949	ug/L 98
19) 1,1-Dichloroethane	3.44	63	333970	52.754	ug/L 98
20) cis-1,2-Dichloroethene	4.22	96	180590	53.315	ug/L 95
22) 2-Butanone	4.25	43	395909	111.593	ug/L 93

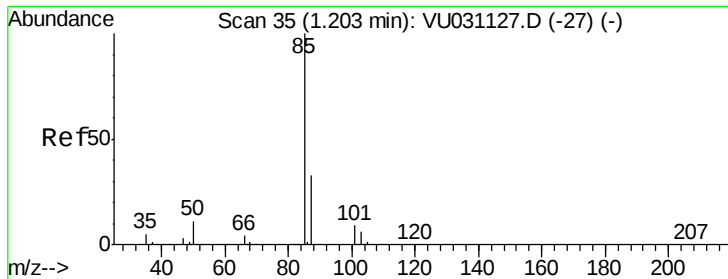
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\
 Data File : VU031153.D
 Acq On : 13 Apr 2019 11:15
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 Quant Title : VOC Analysis
 QLast Update : Sat Apr 13 01:01:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	93705	58.516	uq/L	86
25) Chloroform	4.67	83	349896	54.991	uq/L	99
27) 1,2-Dichloroethane	5.40	62	264502	54.466	uq/L	100
29) Cyclohexane	4.99	56	271878	45.144	uq/L	94
30) 1,1,1-Trichloroethane	4.91	97	279069	54.193	uq/L	99
31) Carbon tetrachloride	5.13	117	240921	54.292	uq/L	98
33) Benzene	5.38	78	727209	52.592	uq/L	100
34) Trichloroethene	6.18	95	193944	57.187	uq/L	96
35) Methylcyclohexane	6.41	83	261436	49.951	uq/L	97
37) 1,2-Dichloropropane	6.43	63	198953	50.813	uq/L #	95
38) Bromodichloromethane	6.75	83	253129	53.590	uq/L	98
39) cis-1,3-Dichloropropene	7.26	75	284166	50.990	uq/L	98
40) 4-Methyl-2-pentanone	7.45	43	611893	97.183	uq/L	98
42) Toluene	7.63	91	760057	53.849	uq/L	100
44) trans-1,3-Dichloropropene	7.87	75	260909	53.125	uq/L	99
45) 1,1,2-Trichloroethane	8.06	97	182042	54.821	uq/L	96
46) Tetrachloroethene	8.22	164	135218	54.840	uq/L	97
48) 2-Hexanone	8.36	43	498932	101.568	uq/L	97
49) Dibromochloromethane	8.47	129	203203	57.670	uq/L	97
50) 1,2-Dibromoethane	8.58	107	191764	53.368	uq/L	99
51) Chlorobenzene	9.12	112	464023	53.602	uq/L	97
52) Ethylbenzene	9.25	91	793952	51.605	uq/L	99
53) m,p-Xylene	9.37	106	285339	53.177	uq/L	99
54) o-xylene	9.77	106	289450	54.231	uq/L	99
55) Styrene	9.79	104	511473	55.868	uq/L	97
56) Isopropylbenzene	10.16	105	765698	54.488	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	315723	52.565	uq/L	100
59) 1,2,3-Trichloropropane	10.49	75	253687	54.099	uq/L	97
61) Bromoform	9.95	173	145594	57.342	uq/L	100
62) 1,3-Dichlorobenzene	11.41	146	324471	53.415	uq/L	97
63) 1,4-Dichlorobenzene	11.50	146	334703	54.169	uq/L	100
65) 1,2-Dichlorobenzene	11.87	146	347946	57.103	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	67289	51.947	uq/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	243202	54.783	uq/L	99
68) 1,2,4-trichlorobenzene	13.50	180	191198	50.655	uq/L	99
69) Naphthalene	13.74	128	626356	51.189	uq/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	222980	56.542	uq/L	98

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



#2

Dichlorodifluoromethane

Concen: 50.404 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

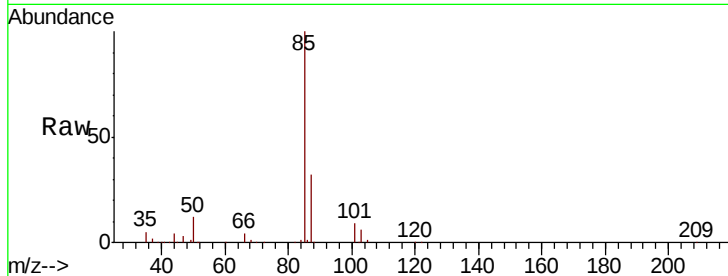
VSTD05035

Tot Ion: 85 Resp: 185054

Ion Ratio Lower Upper

85 100

87 32.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU031127.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031127.D (-27) (-)

1.20

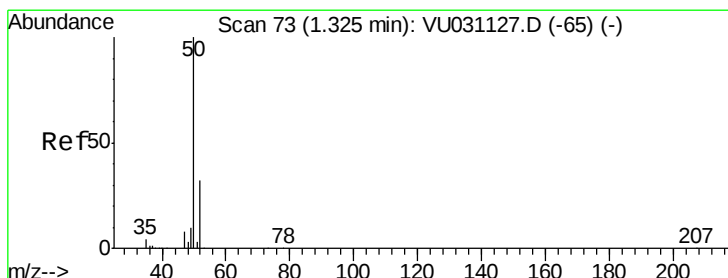
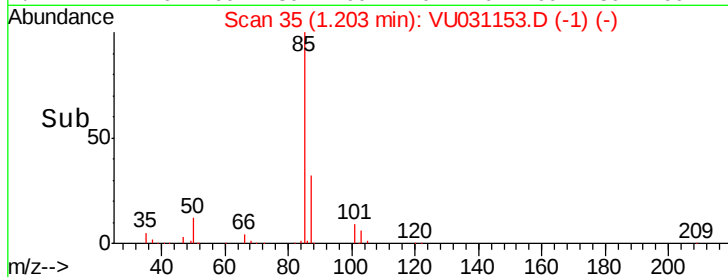
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 46.412 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031153.D

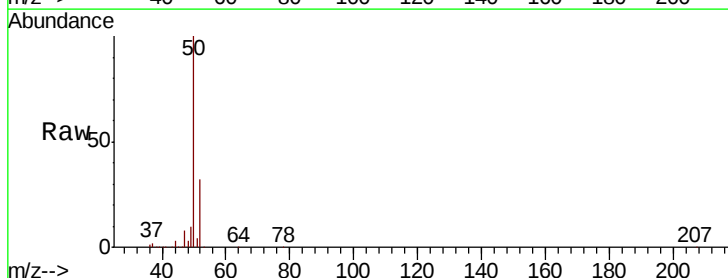
Acq: 13 Apr 2019 11:15

Tgt Ion: 50 Resp: 220405

Ion Ratio Lower Upper

50 100

52 32.2 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU031127.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031127.D (-65) (-)

1.32

250000

200000

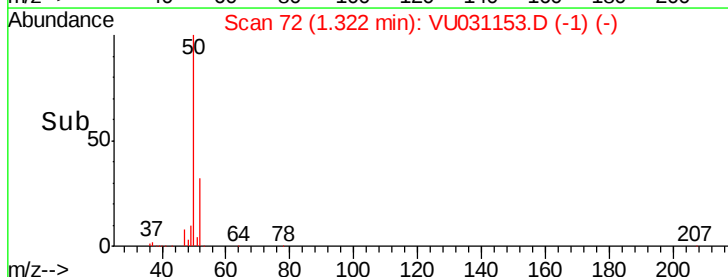
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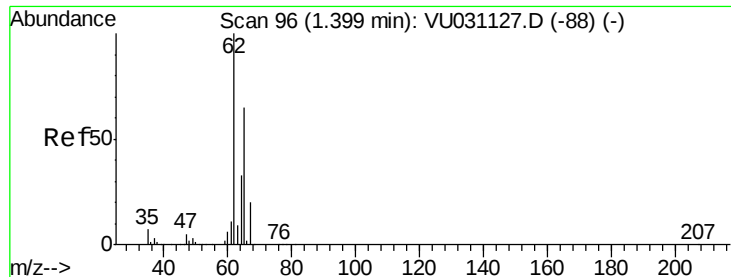
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.654 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

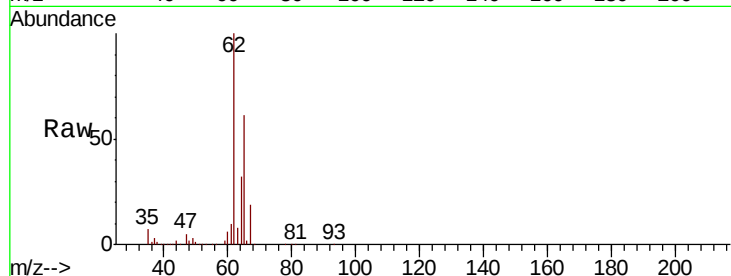
VSTD05035

Tot Ion: 62 Resp: 228254

Ion Ratio Lower Upper

62 100

64 31.8 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU031127.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031127.D (-88) (-)

1.40

250000

200000

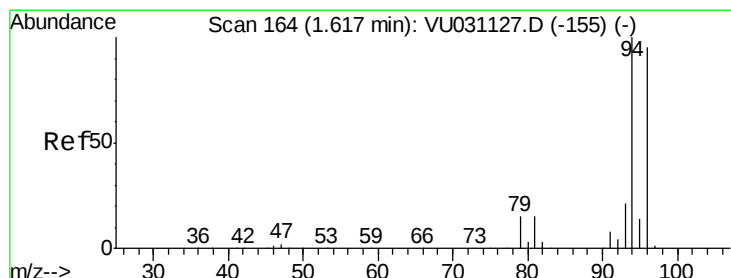
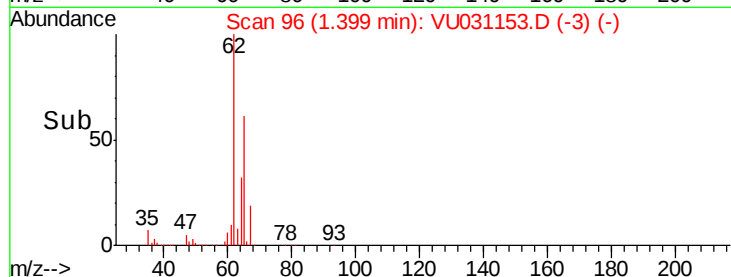
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 47.586 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU031153.D

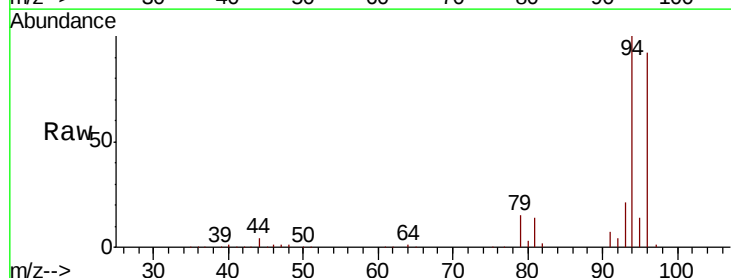
Acq: 13 Apr 2019 11:15

Tgt Ion: 94 Resp: 113332

Ion Ratio Lower Upper

94 100

96 92.2 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU031127.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU031127.D (-155) (-)

1.62

100000

80000

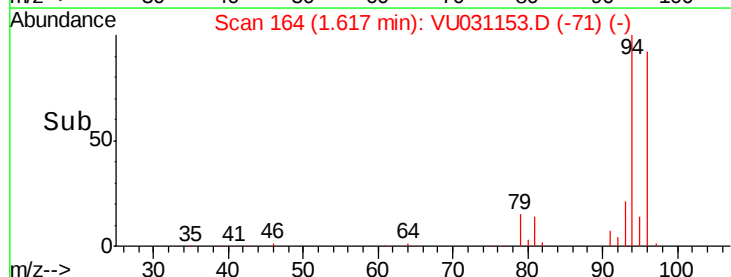
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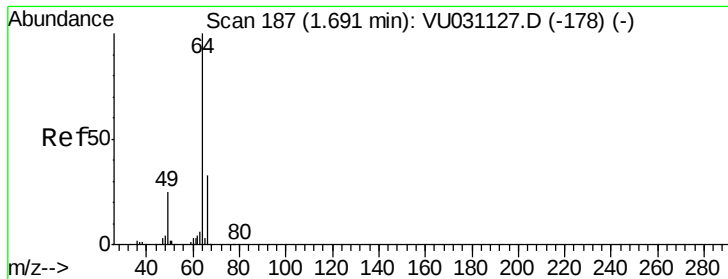
40000

20000

0

Time-->





#8

Chloroethane

Concen: 50.222 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampled :

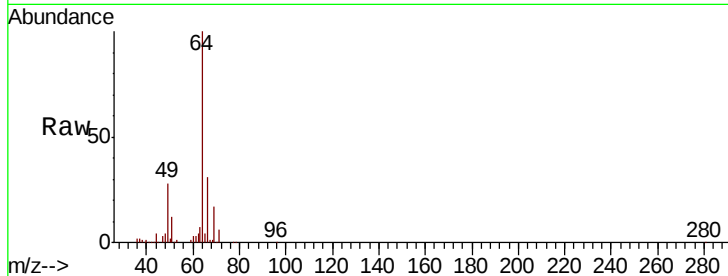
VSTD05035

Tot Ion: 64 Resp: 131677

Ion Ratio Lower Upper

64 100

66 31.4 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU031127.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU031127.D (-178) (-)

1.69

100000

80000

60000

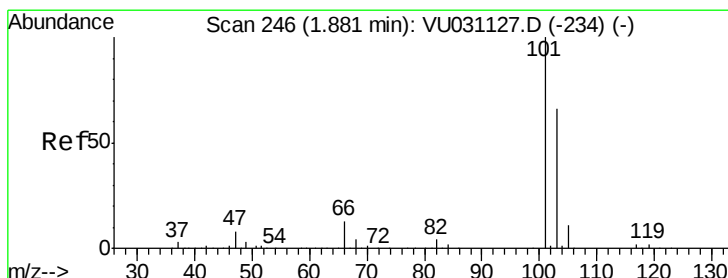
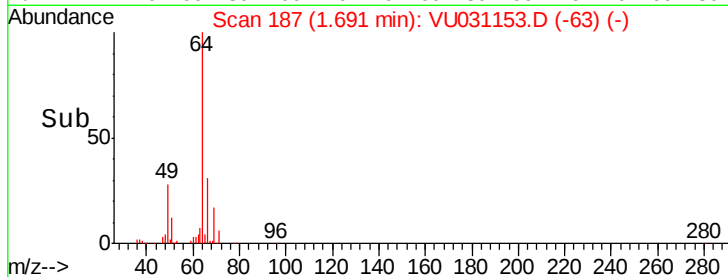
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 54.499 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031153.D

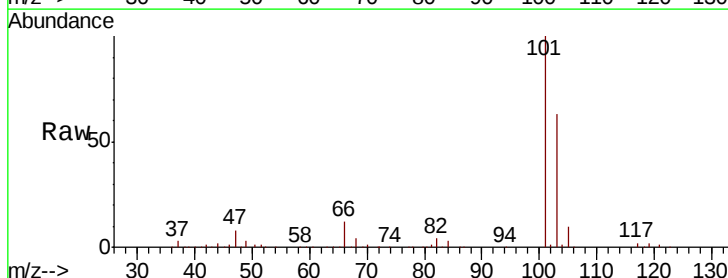
Acq: 13 Apr 2019 11:15

Tgt Ion:101 Resp: 291914

Ion Ratio Lower Upper

101 100

103 64.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU031127.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU031127.D (-234) (-)

1.88

250000

200000

150000

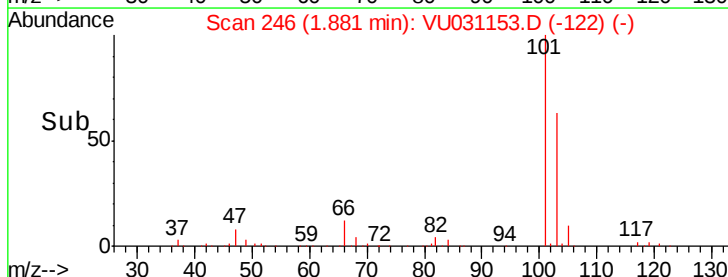
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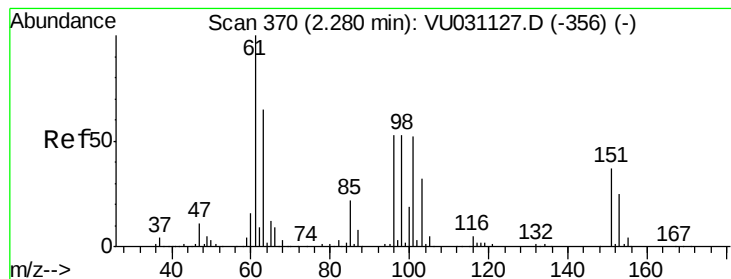
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 54.062 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

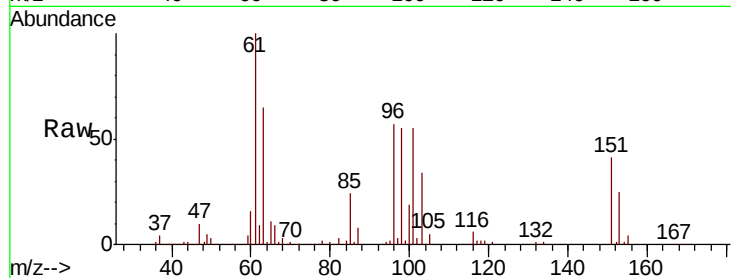
Tot Ion:101 Resp: 161798

Ion Ratio Lower Upper

101 100

85 44.2 36.8 55.2

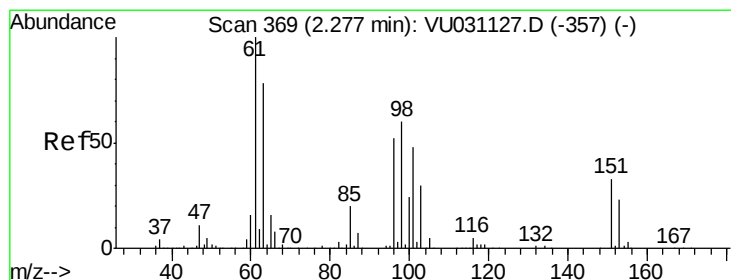
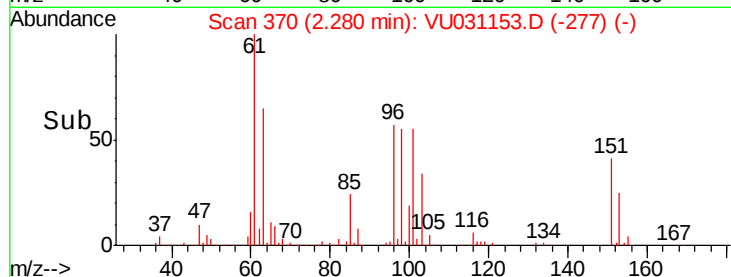
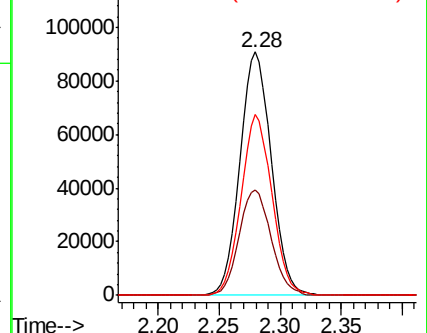
151 72.8 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 51.866 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

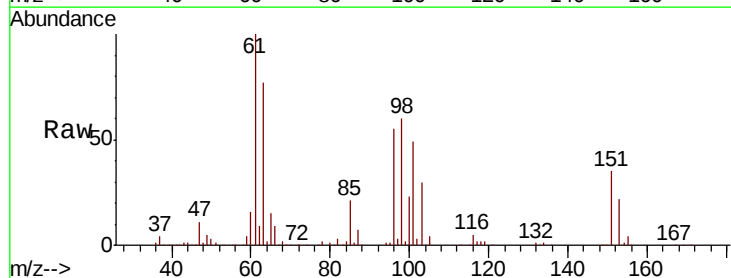
Tgt Ion: 96 Resp: 149849

Ion Ratio Lower Upper

96 100

61 183.3 132.0 245.2

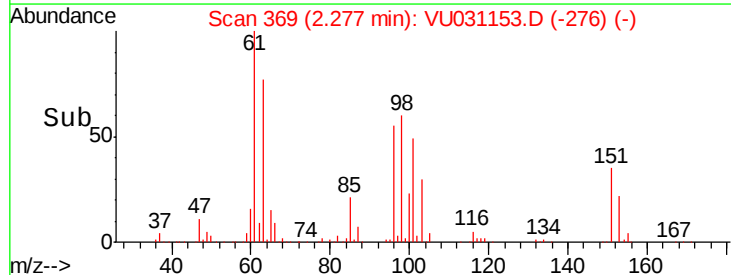
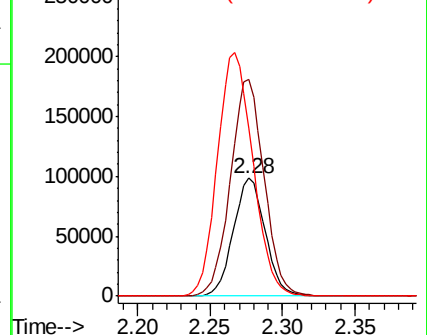
63 141.8 90.9 168.9

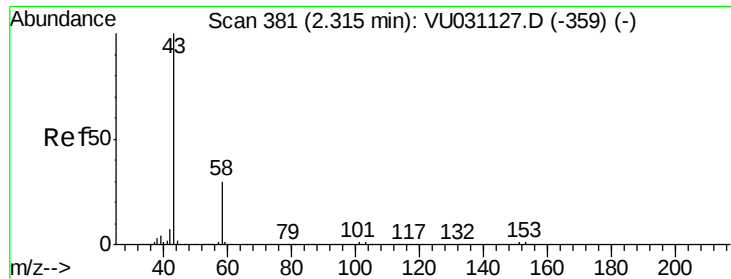


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

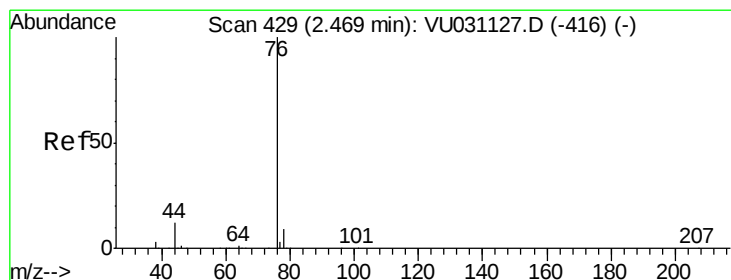
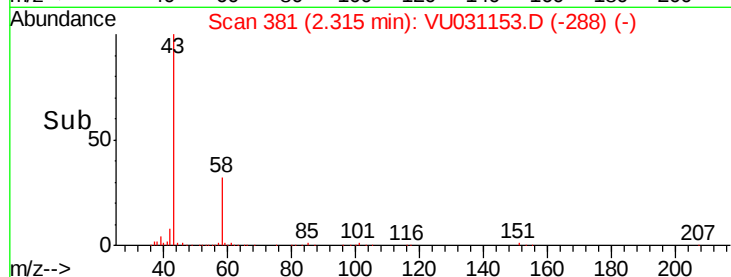
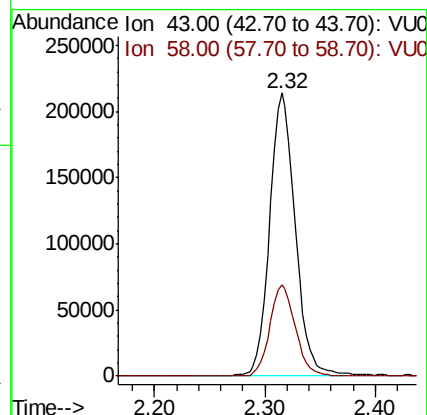
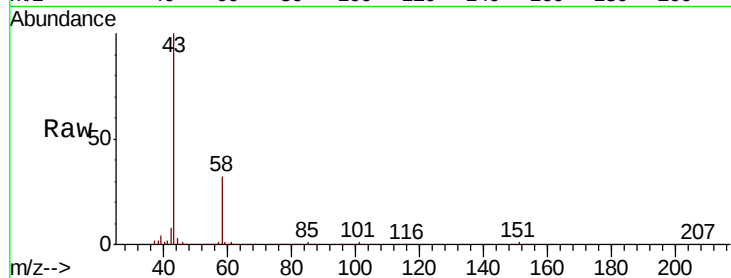




#13
Acetone
Concen: 113.601 ug/L
RT: 2.32 min Scan# 381
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

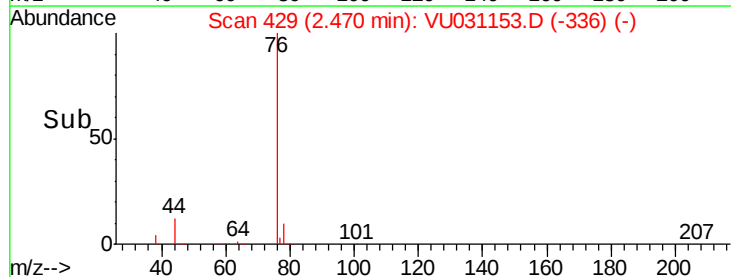
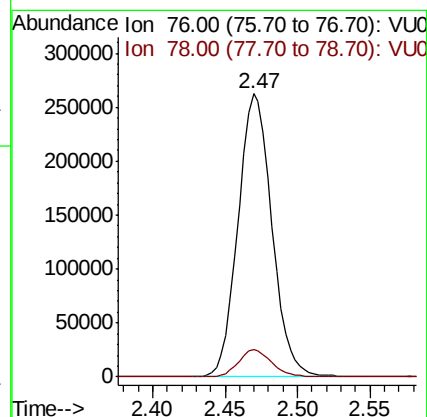
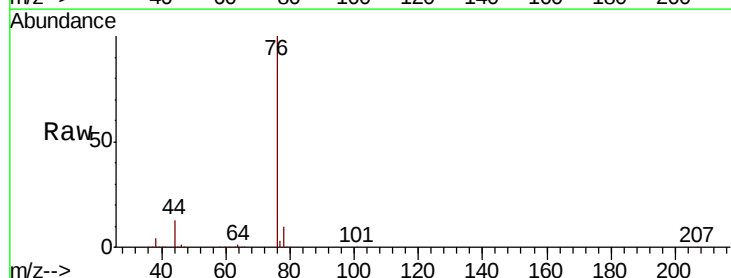
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

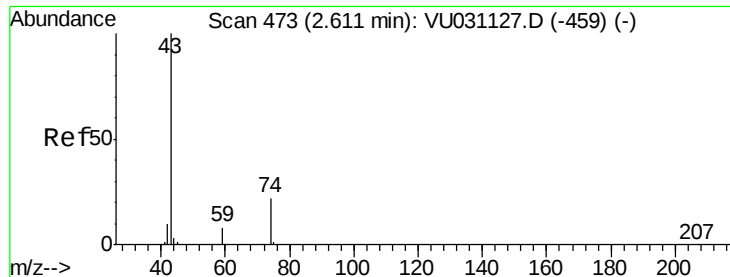
Tot Ion: 43 Resp: 343747
Ion Ratio Lower Upper
43 100
58 32.2 0.0 64.0



#14
Carbon disulfide
Concen: 47.399 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

Tgt Ion: 76 Resp: 425417
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.4





#15

Methvl Acetate

Concen: 51.372 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

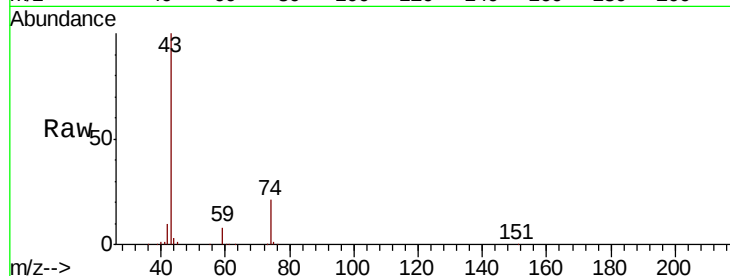
VSTD05035

Tot Ion: 43 Resp: 241017

Ion Ratio Lower Upper

43 100

74 21.0 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VU031127.D (-459) (-)

Ion 74.00 (73.70 to 74.70): VU031127.D (-459) (-)

2.61

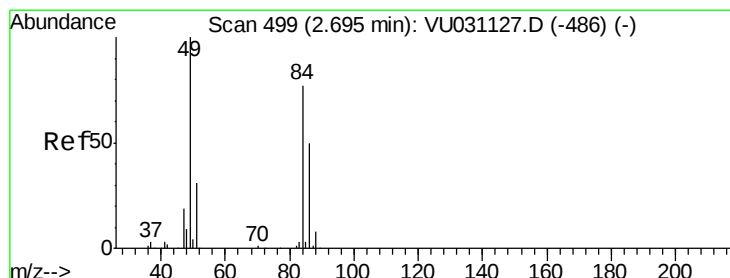
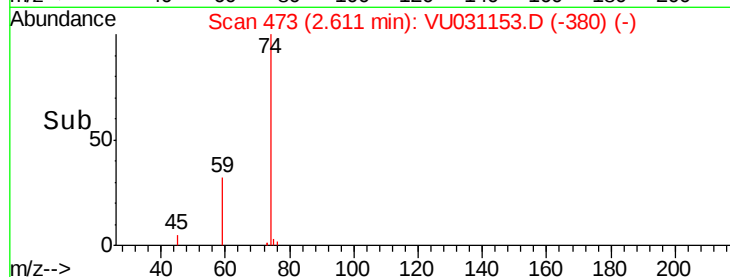
150000

100000

50000

0

Time--> 2.50 2.60 2.70



#16

Methylene chloride

Concen: 53.286 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

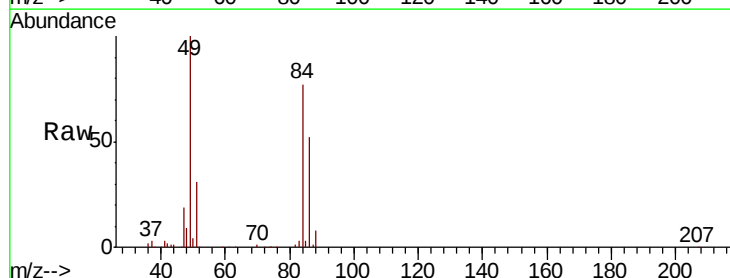
Tgt Ion: 84 Resp: 187021

Ion Ratio Lower Upper

84 100

86 66.7 45.1 83.7

49 129.4 96.5 179.1



Abundance Ion 84.00 (83.70 to 84.70): VU031127.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU031127.D (-486) (-)

Ion 49.00 (48.70 to 49.70): VU031127.D (-486) (-)

2.69

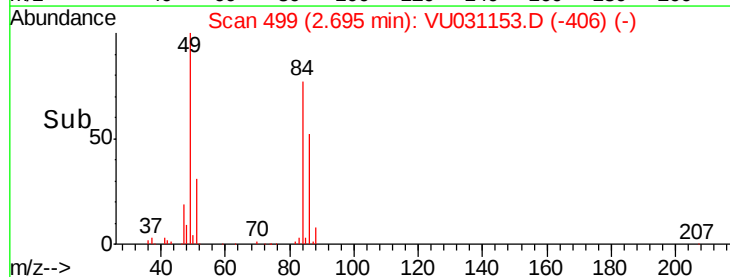
150000

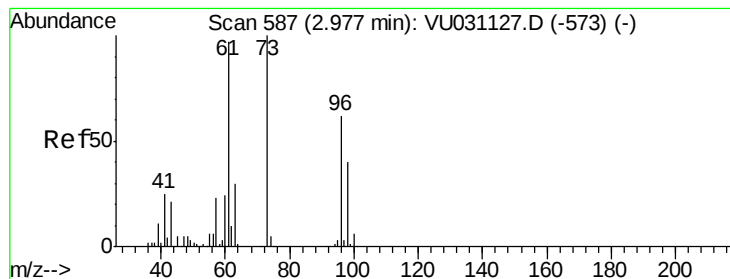
100000

50000

0

Time--> 2.60 2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 51.711 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

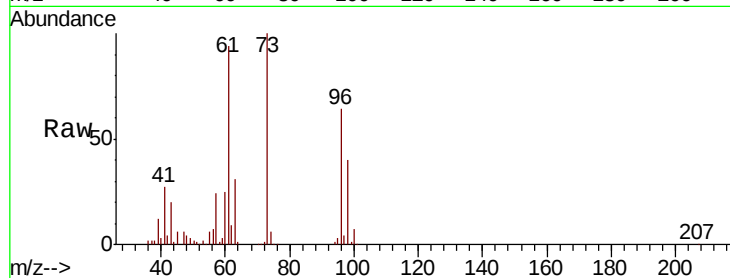
Tot Ion: 96 Resp: 158632

Ion Ratio Lower Upper

96 100

61 146.7 109.5 203.3

98 62.7 44.0 81.6

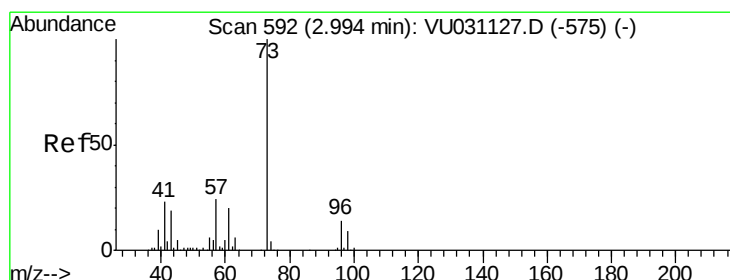
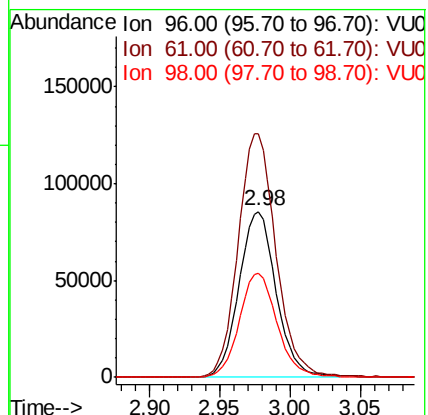
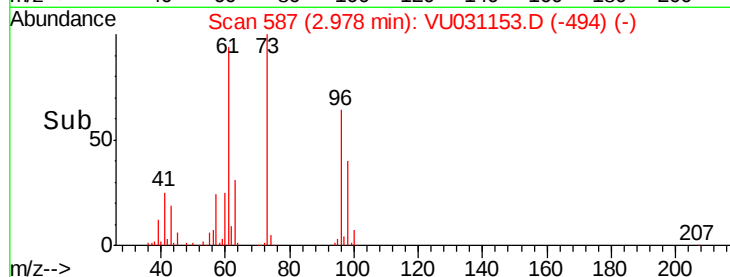


Abundance Ion 96.00 (95.70 to 96.70): VU031127.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU031127.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU031127.D (-573) (-)

2.98



#18

Methyl tert-butyl Ether

Concen: 51.949 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

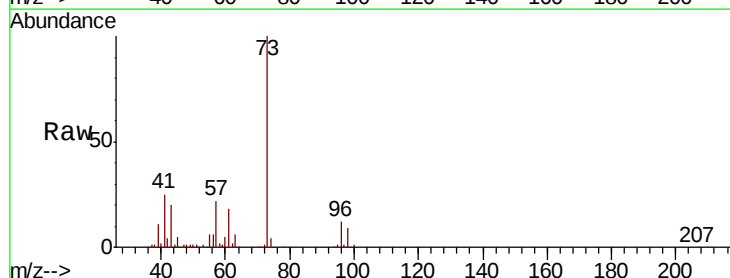
Tgt Ion: 73 Resp: 533825

Ion Ratio Lower Upper

73 100

43 19.8 16.4 24.6

57 22.8 19.0 28.4

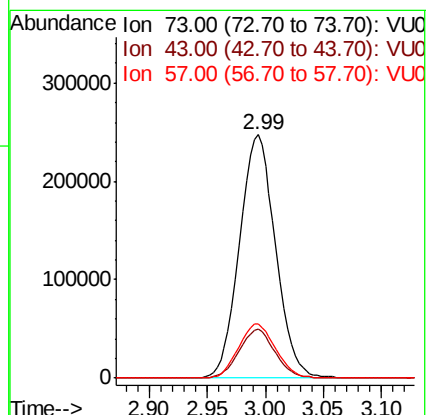
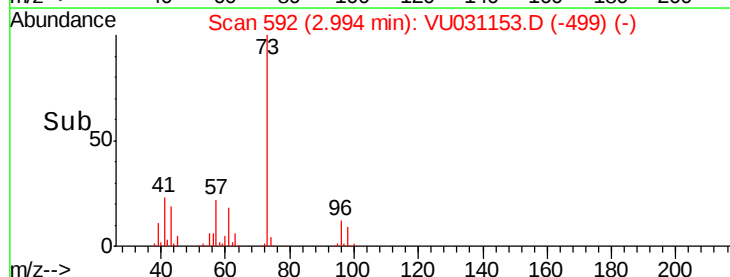


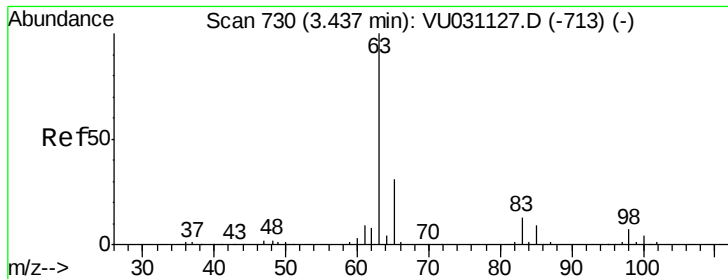
Abundance Ion 73.00 (72.70 to 73.70): VU031127.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031127.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031127.D (-575) (-)

2.99



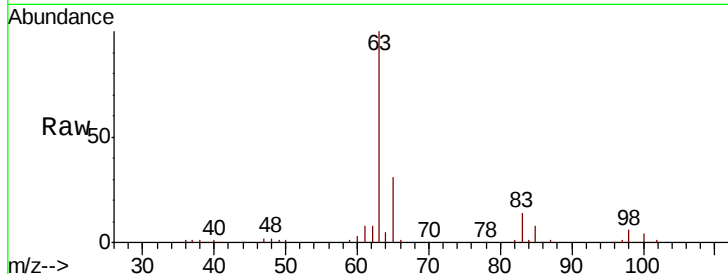


#19
 1,1-Dichloroethane
 Concen: 52.754 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

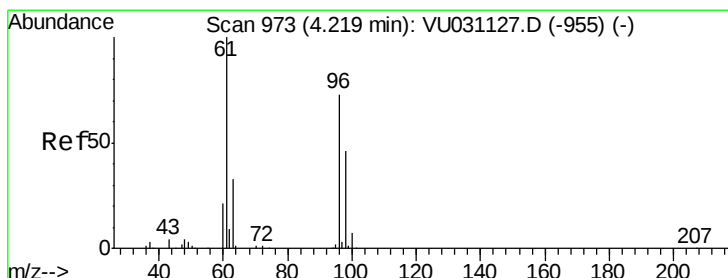
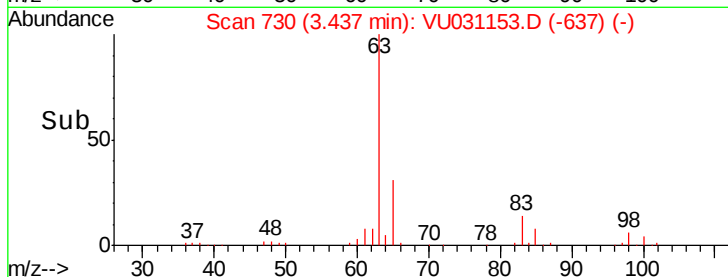
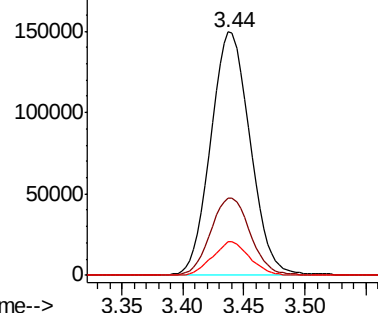
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tot Ion: 63 Resp: 333970

Ion	Ratio	Lower	Upper
63	100		
65	31.5	21.4	39.8
83	13.6	8.5	15.7



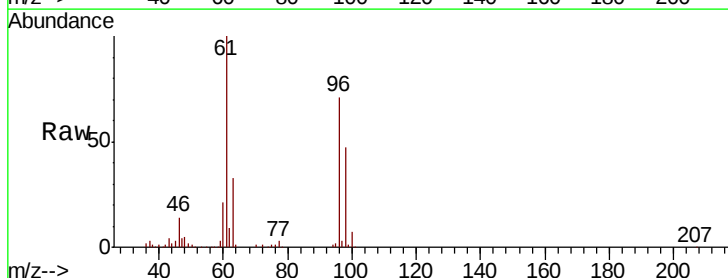
Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0



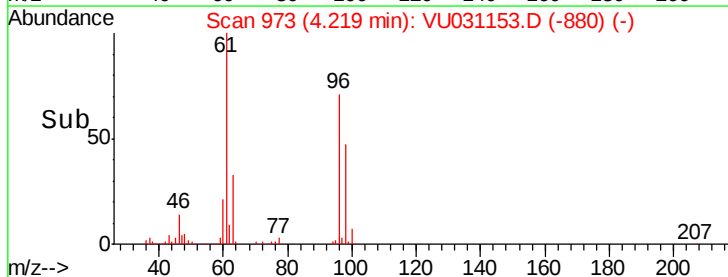
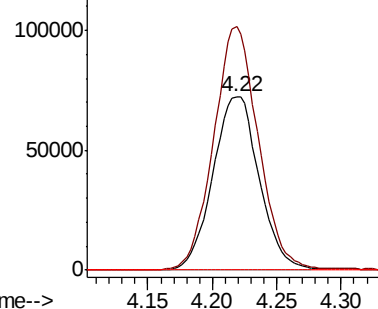
#20
 cis-1,2-Dichloroethene
 Concen: 53.315 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

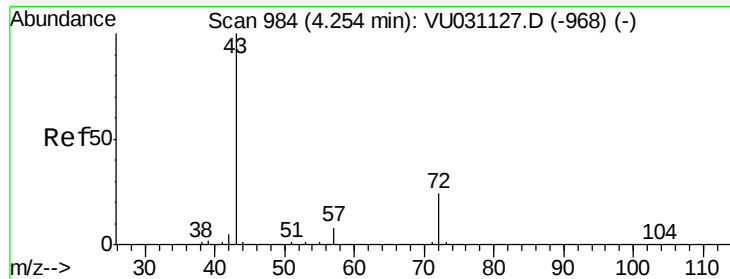
Tgt Ion: 96 Resp: 180590

Ion	Ratio	Lower	Upper
96	100		
61	140.2	102.9	191.1
68	0.0	0.0	0.0



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





#22

2-Butanone

Concen: 111.593 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

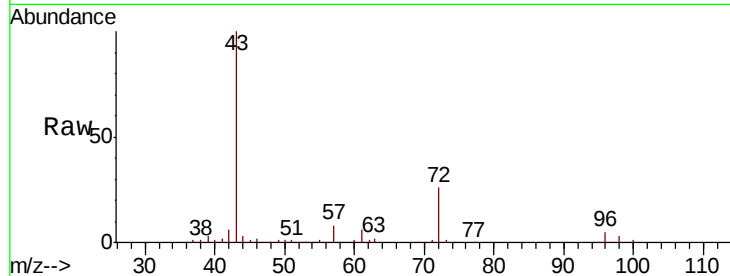
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

Tot Ion: 43 Resp: 395909

Ion Ratio Lower Upper

43 100

72 24.8 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU031127.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU031127.D (-968) (-)

4.25

150000

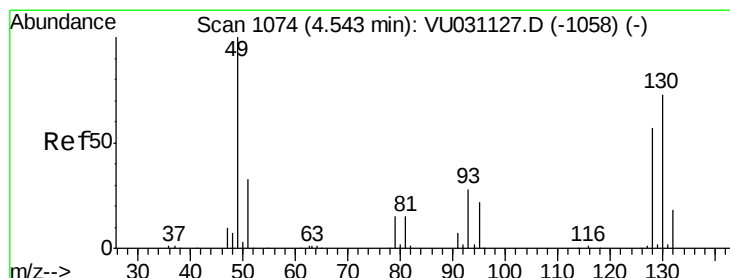
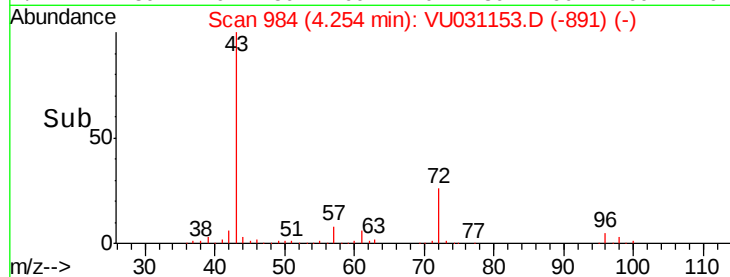
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 58.516 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Tgt Ion: 128 Resp: 93705

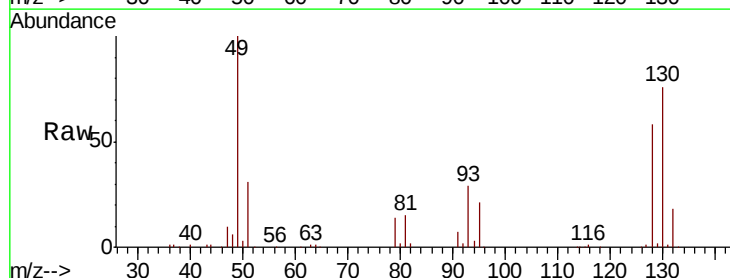
Ion Ratio Lower Upper

128 100

49 173.3 139.9 259.7

130 131.9 86.6 160.8

51 53.3 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU031127.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031127.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031127.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031127.D (-1058) (-)

100000

80000

60000

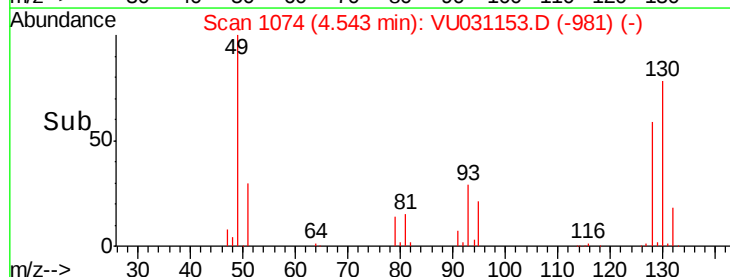
40000

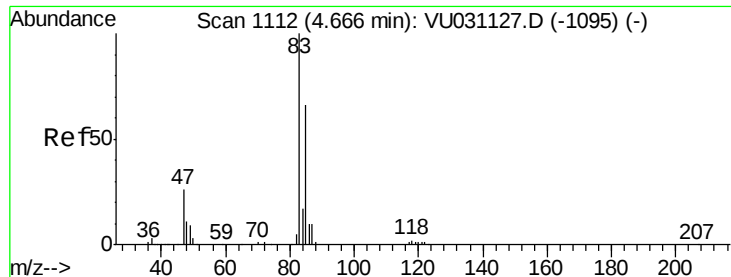
20000

0

4.45 4.50 4.55 4.60

Time-->

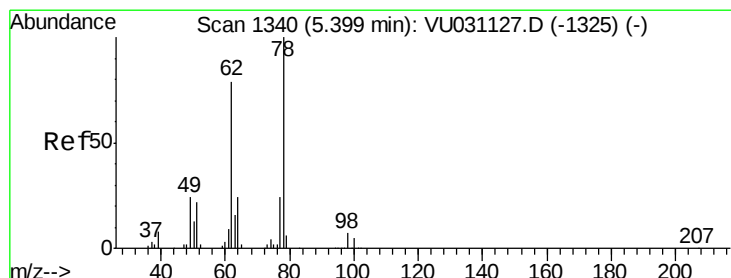
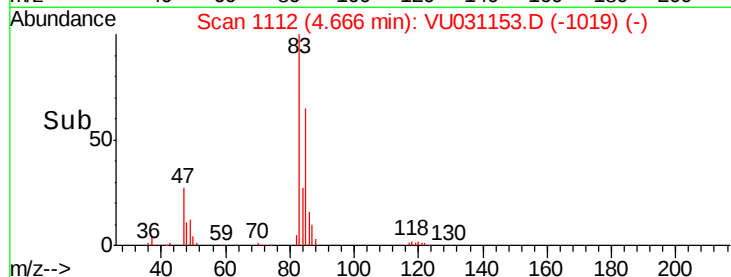
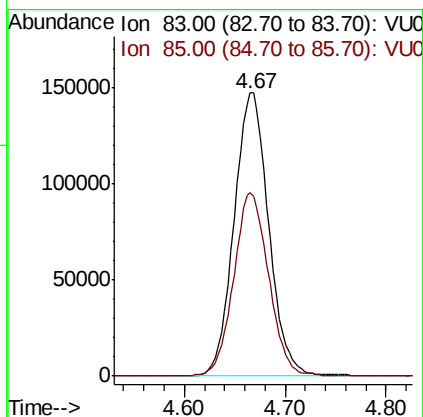
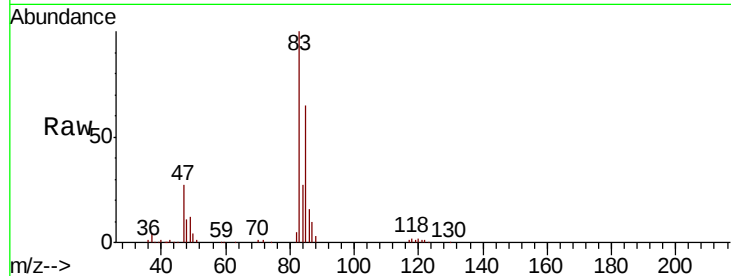




#25
Chloroform
Concen: 54.991 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

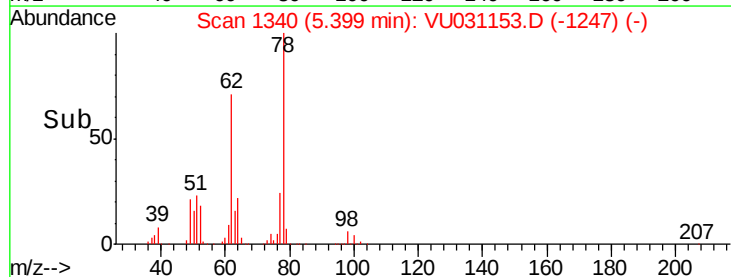
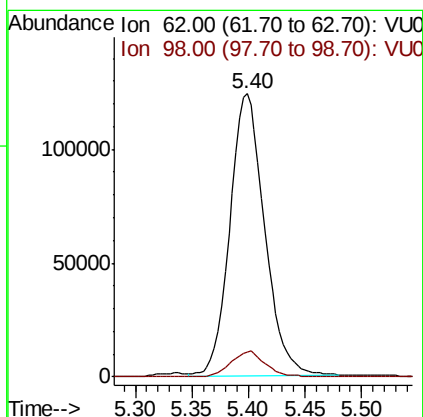
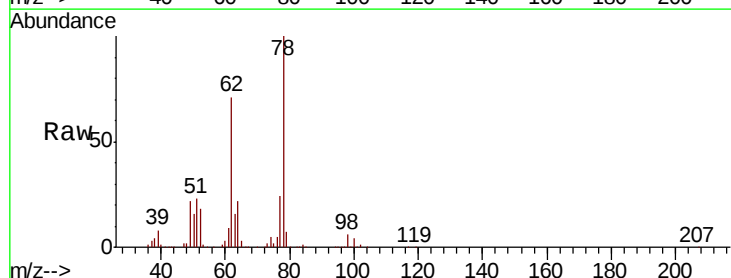
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

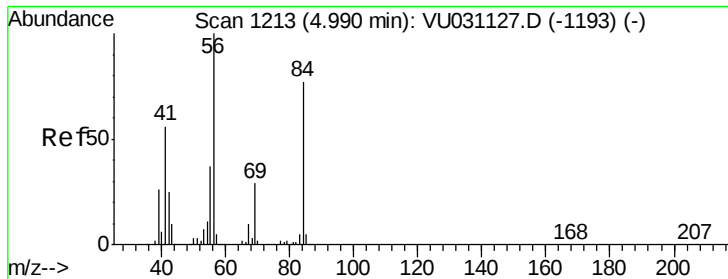
Tot Ion: 83 Resp: 349896
Ion Ratio Lower Upper
83 100
85 64.9 45.8 85.0



#27
1,2-Dichloroethane
Concen: 54.466 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

Tgt Ion: 62 Resp: 264502
Ion Ratio Lower Upper
62 100
98 9.0 7.2 10.8

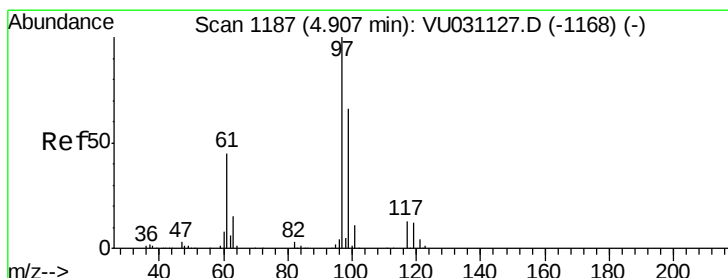
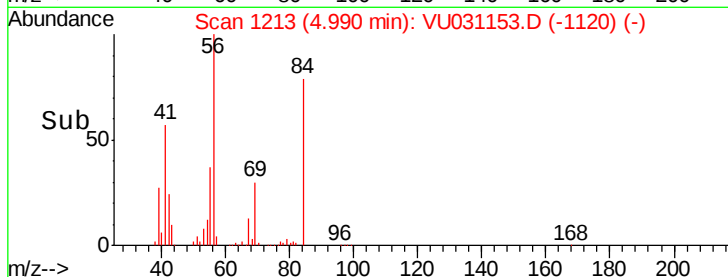
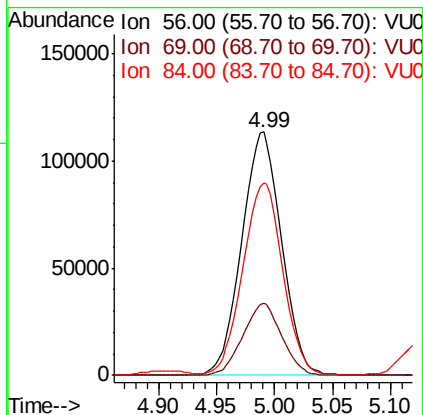
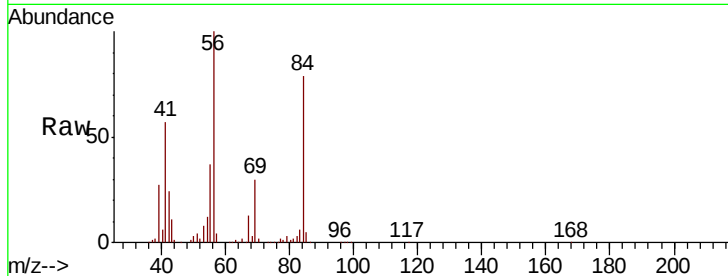




#29
Cyclohexane
Concen: 45.144 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

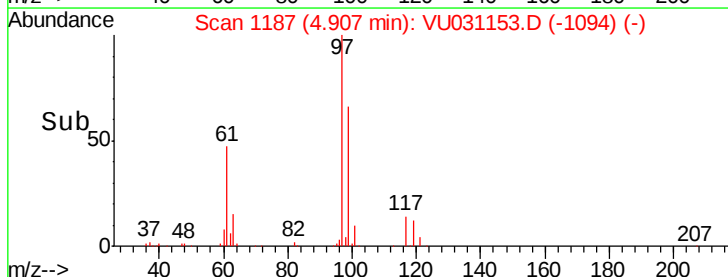
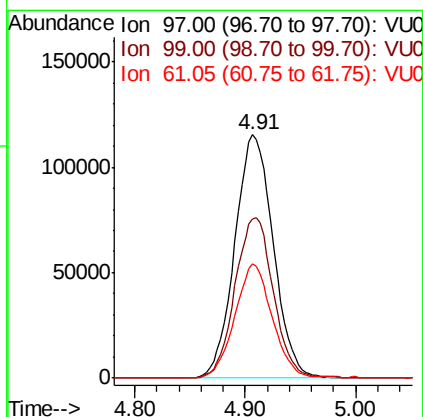
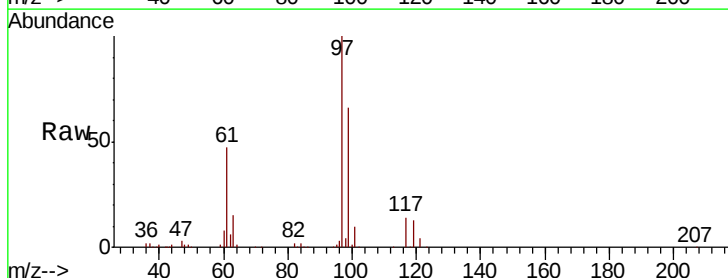
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

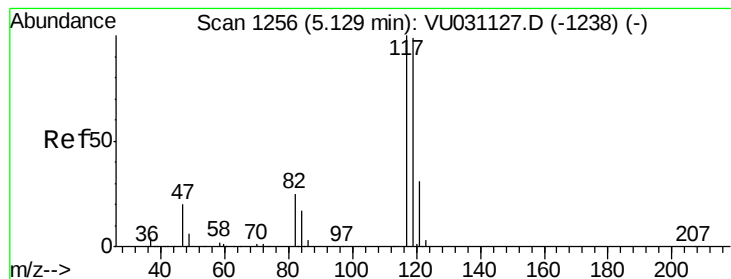
Tot Ion: 56 Resp: 271878
Ion Ratio Lower Upper
56 100
69 28.8 22.0 33.0
84 79.0 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 54.193 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

Tgt Ion: 97 Resp: 279069
Ion Ratio Lower Upper
97 100
99 65.5 51.4 77.2
61 45.7 37.1 55.7





#31

Carbon tetrachloride

Concen: 54.292 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

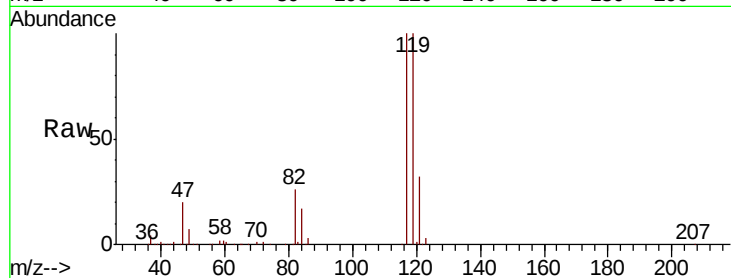
VSTD05035

Tot Ion:117 Resp: 240921

Ion Ratio Lower Upper

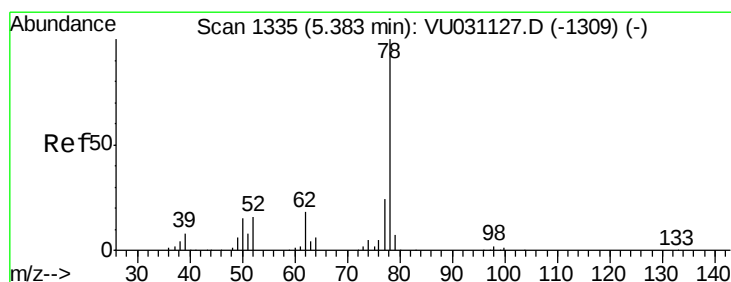
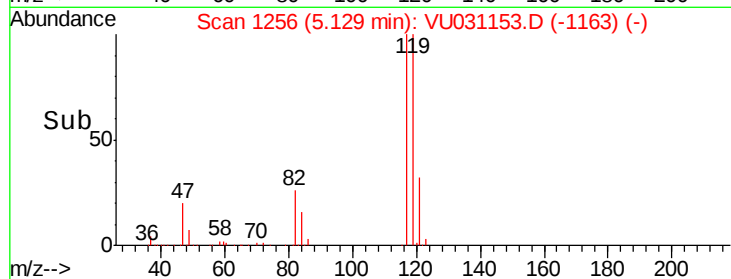
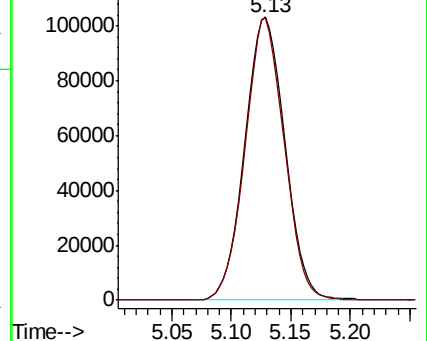
117 100

119 97.1 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.592 ug/L

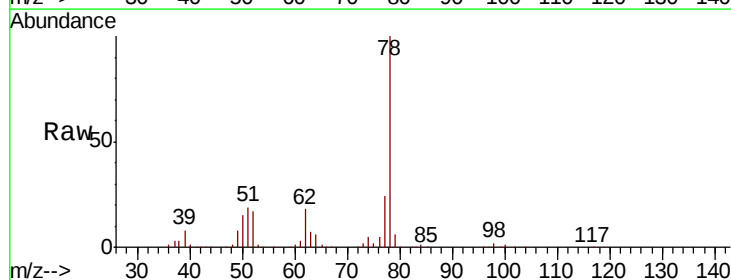
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU031153.D

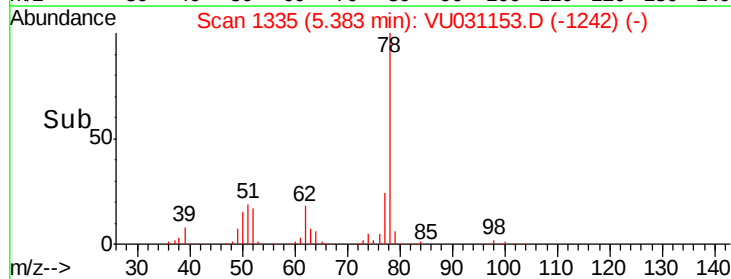
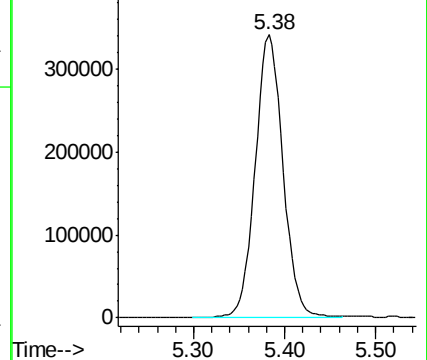
Acq: 13 Apr 2019 11:15

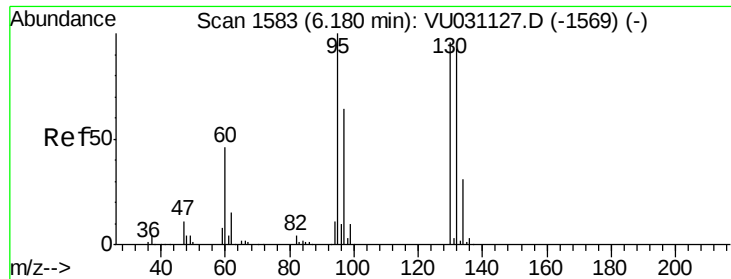
Tgt Ion: 78 Resp: 727209



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 79.00 (78.70 to 79.70): VU0

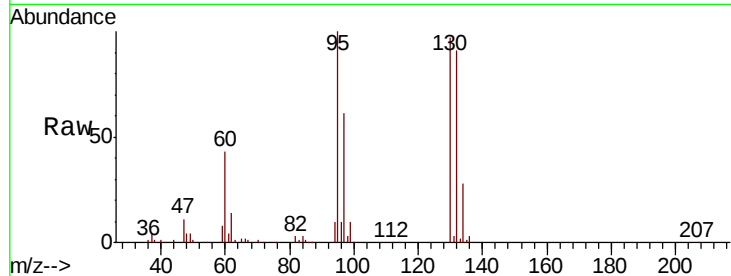




#34
 Trichloroethene
 Concen: 57.187 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tot Ion:	95	Resp:	193944
Ion	Ratio	Lower	Upper
95	100		
97	61.2	44.5	82.7
132	91.1	61.5	114.1
130	96.9	64.9	120.5



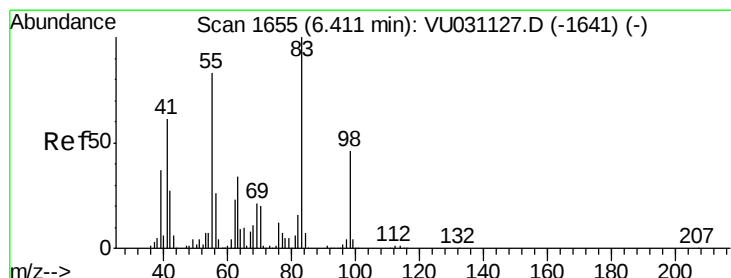
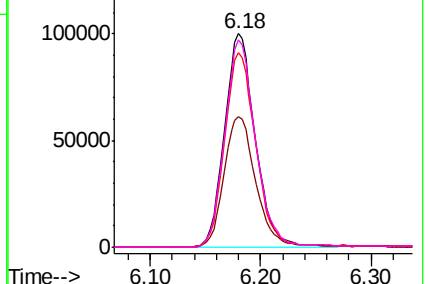
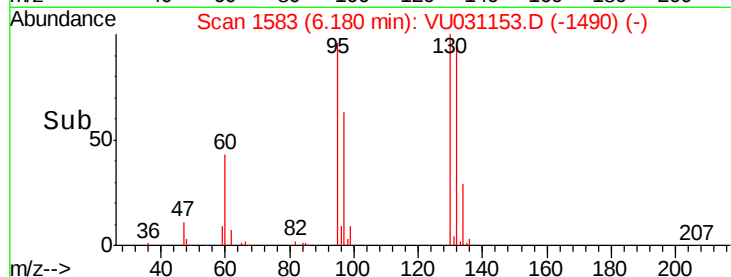
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

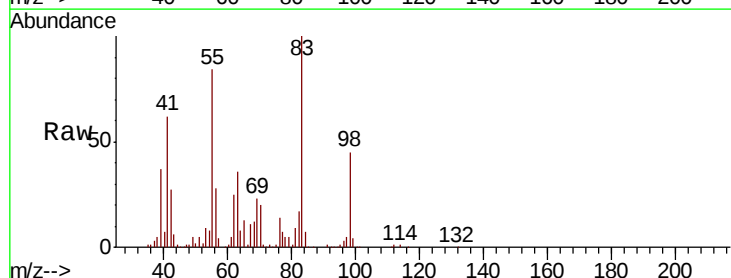
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35
 Methylcyclohexane
 Concen: 49.951 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Tgt Ion:	83	Resp:	261436
Ion	Ratio	Lower	Upper
83	100		
55	85.9	71.6	107.4
98	45.4	35.4	53.0

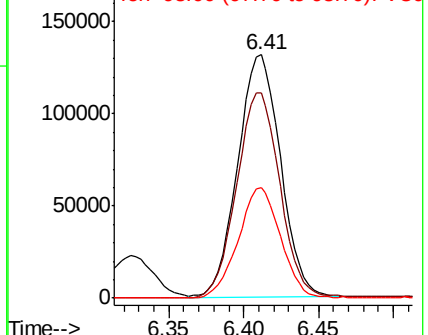
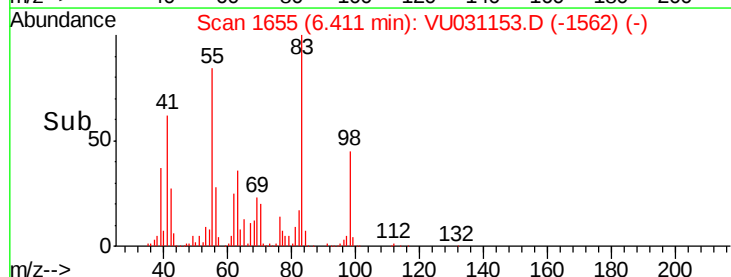


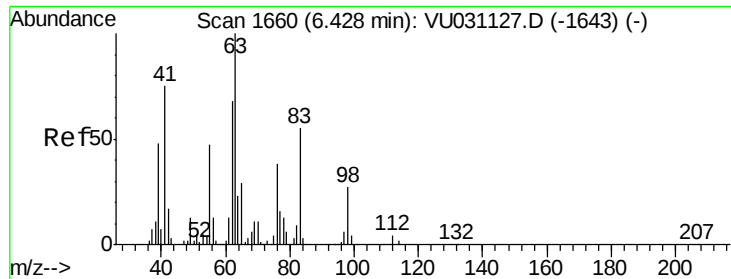
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

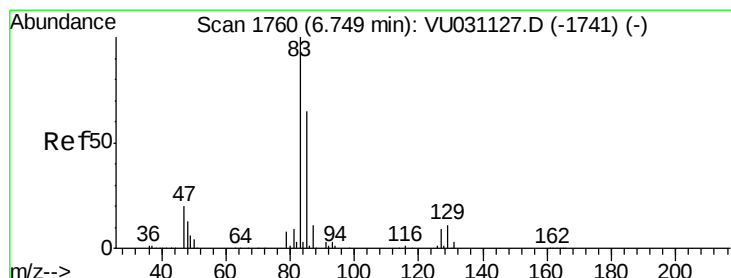
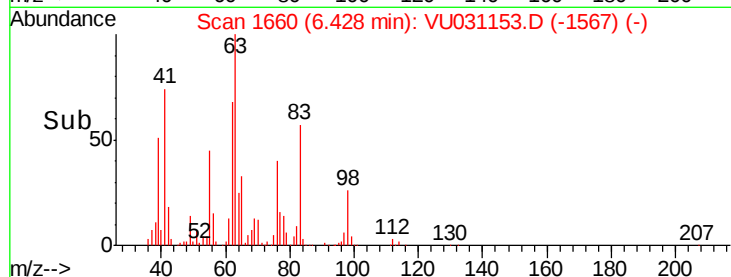
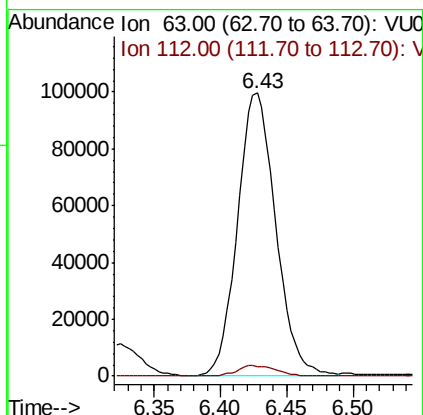
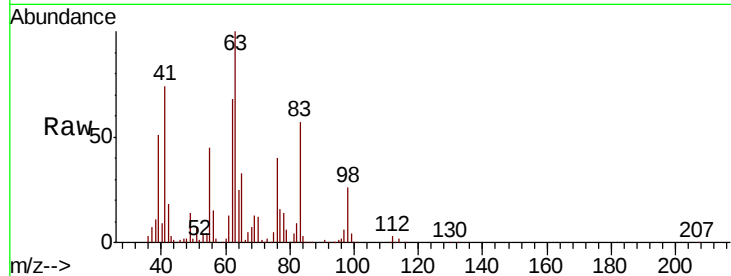




#37
 1,2-Dichloropropane
 Concen: 50.813 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

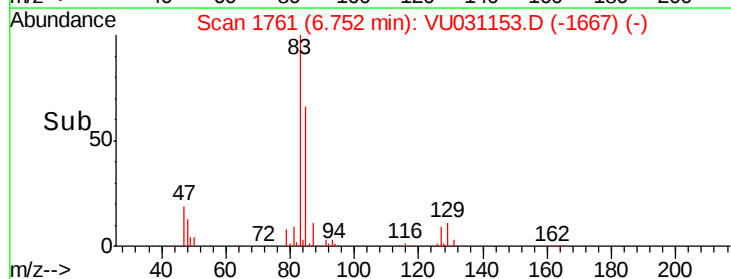
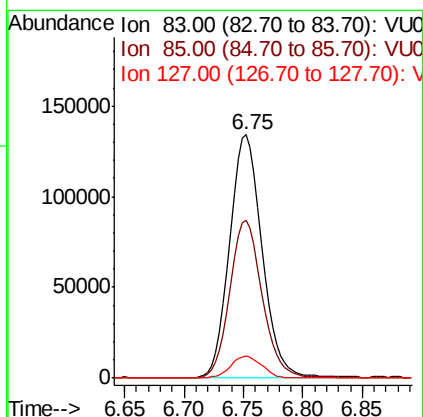
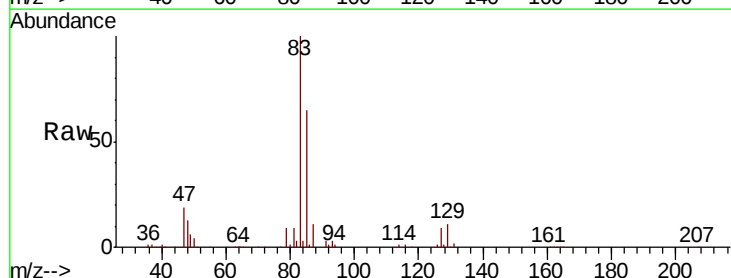
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

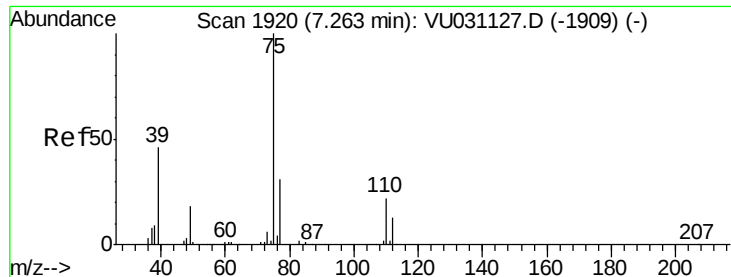
Tot Ion: 63 Resp: 198953
 Ion Ratio Lower Upper
 63 100
 112 2.1 3.0 4.4#



#38
 Bromodichloromethane
 Concen: 53.590 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Tgt Ion: 83 Resp: 253129
 Ion Ratio Lower Upper
 83 100
 85 65.0 46.5 86.3
 127 9.0 6.6 10.0

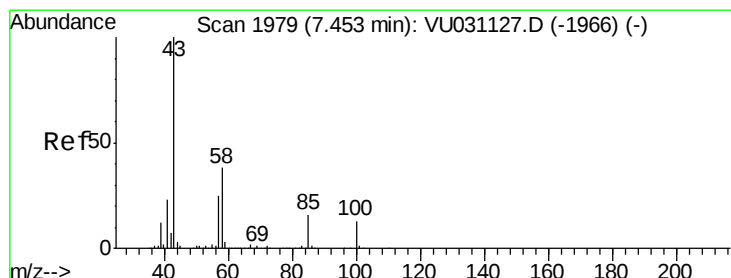
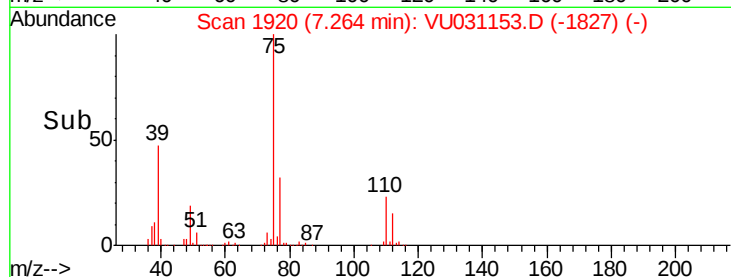
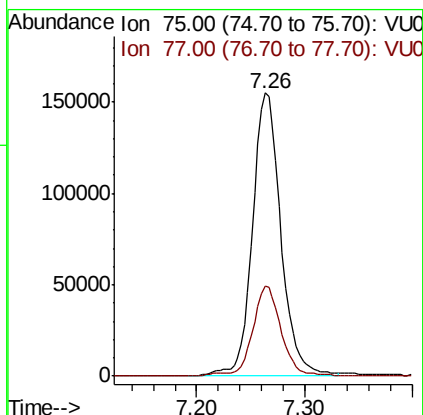
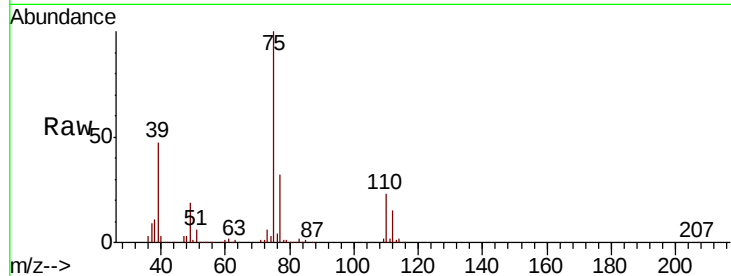




#39
 cis-1,3-Dichloropropene
 Concen: 50.990 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

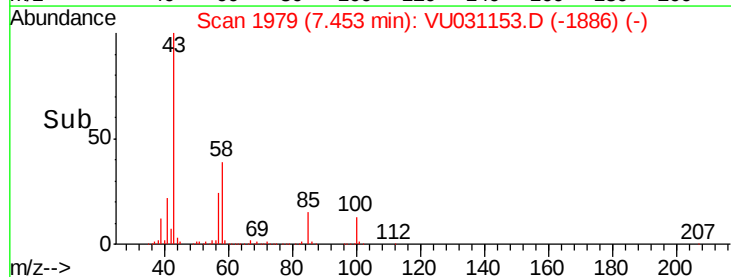
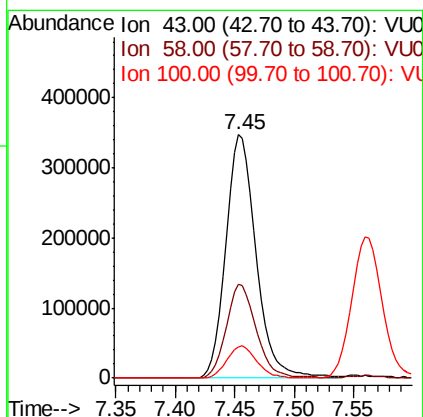
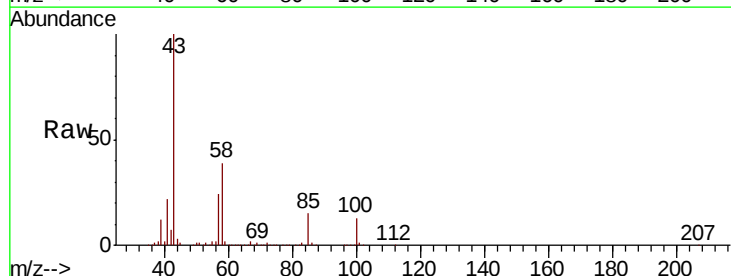
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

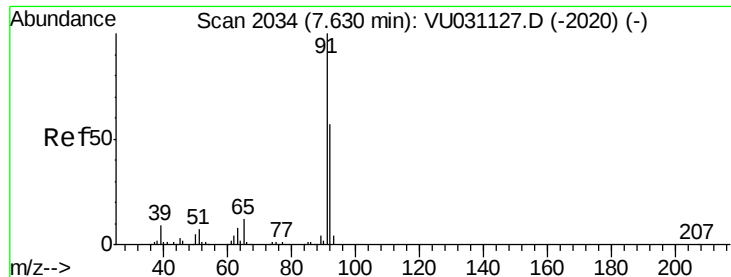
Tot Ion: 75 Resp: 284166
 Ion Ratio Lower Upper
 75 100
 77 31.7 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 97.183 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Tgt Ion: 43 Resp: 611893
 Ion Ratio Lower Upper
 43 100
 58 38.3 29.7 44.5
 100 13.2 9.8 14.6





#42

Toluene

Concen: 53.849 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

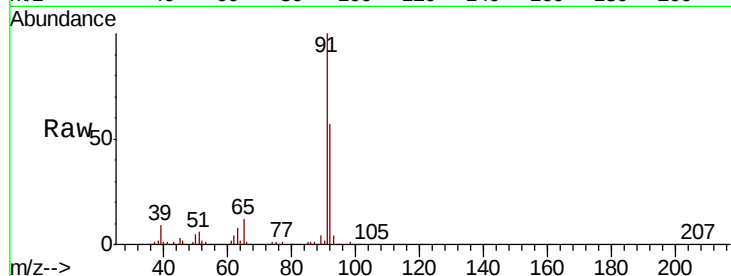
VSTD05035

Tot Ion: 91 Resp: 760057

Ion Ratio Lower Upper

91 100

92 56.8 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU031127.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031127.D (-2020) (-)

7.63

400000

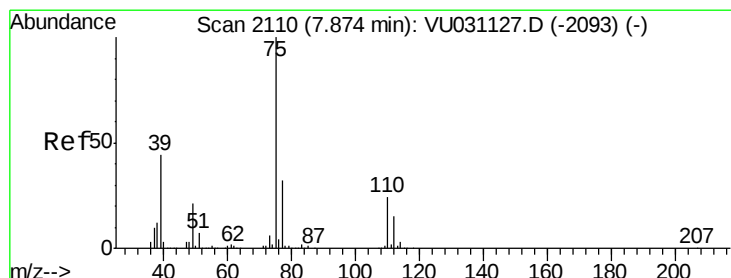
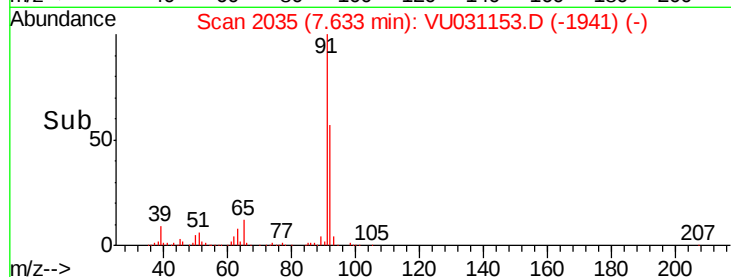
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.125 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031153.D

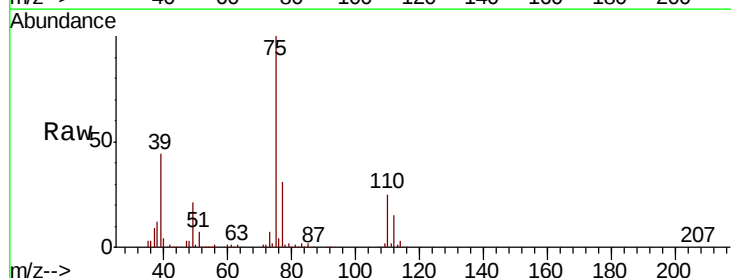
Acq: 13 Apr 2019 11:15

Tgt Ion: 75 Resp: 260909

Ion Ratio Lower Upper

75 100

77 31.1 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU031127.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU031127.D (-2093) (-)

7.87

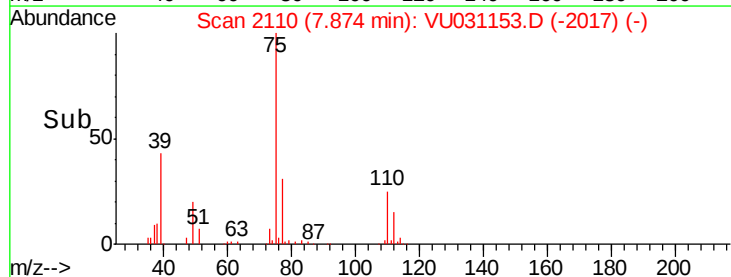
150000

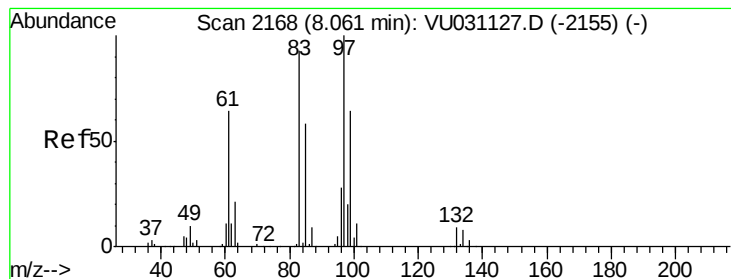
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 54.821 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

Tot Ion: 97 Resp: 182042

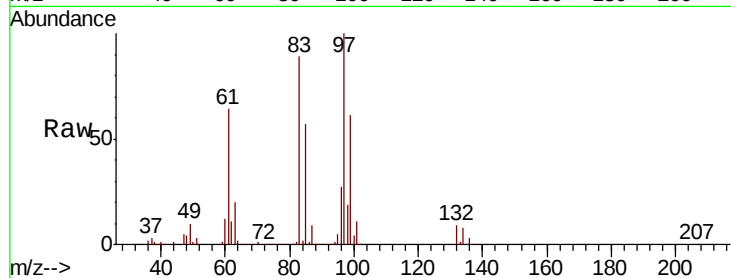
Ion Ratio Lower Upper

97 100

99 61.0 44.0 81.8

83 88.5 65.3 121.3

85 56.9 42.5 78.9



Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

150000

100000

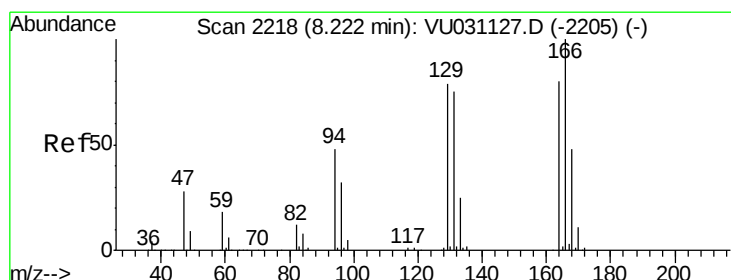
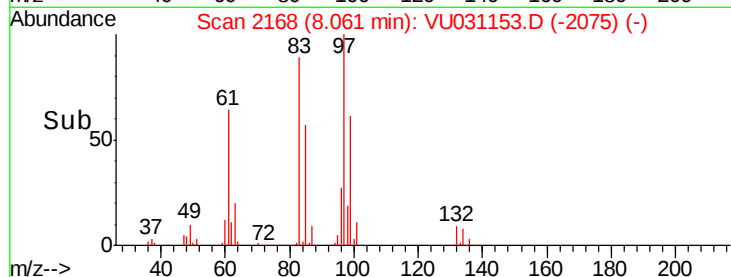
50000

0

8.06

8.00 8.05 8.10 8.15

Time-->



#46

Tetrachloroethene

Concen: 54.840 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Tgt Ion:164 Resp: 135218

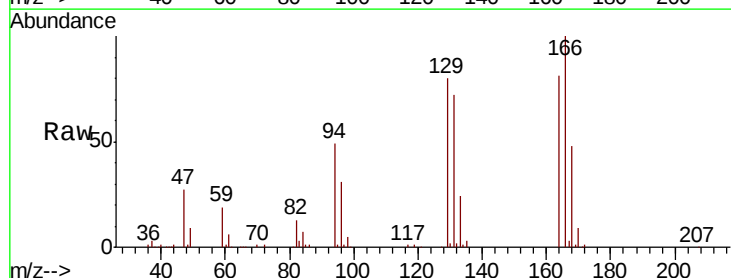
Ion Ratio Lower Upper

164 100

129 98.7 67.4 125.2

131 89.2 65.9 122.5

166 123.6 88.6 164.6



Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

150000

100000

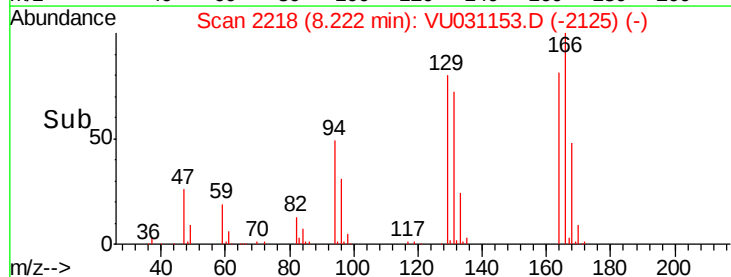
50000

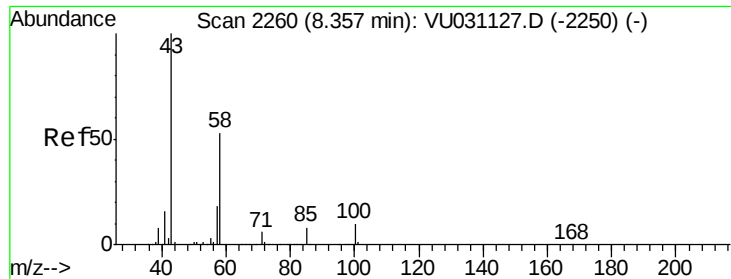
0

8.22

8.15 8.20 8.25

Time-->

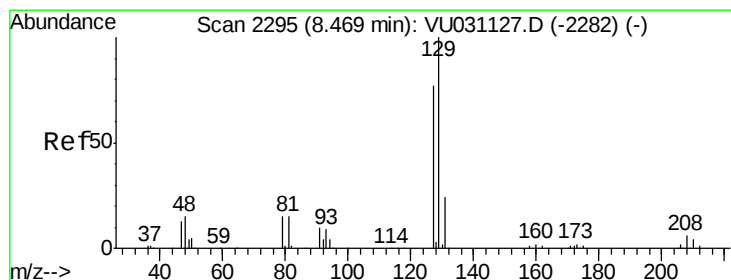
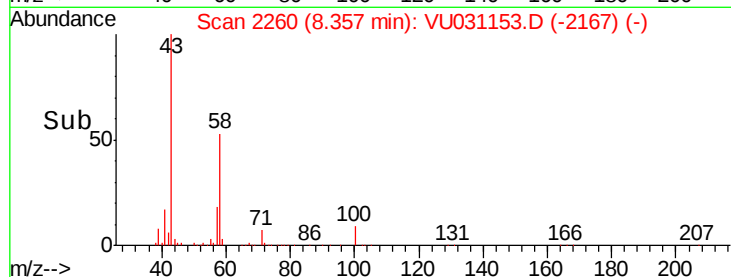
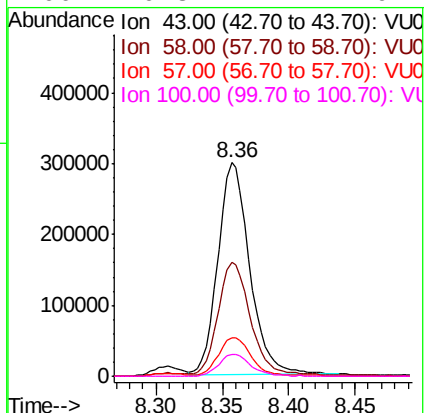
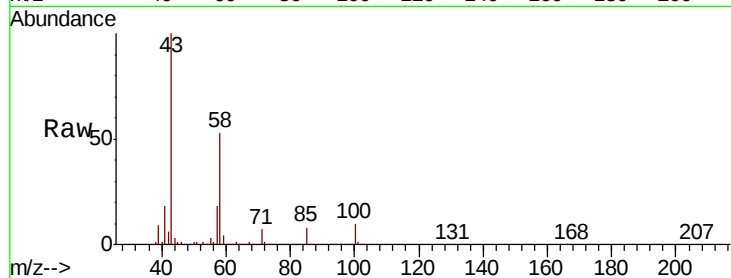




#48
2-Hexanone
Concen: 101.568 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

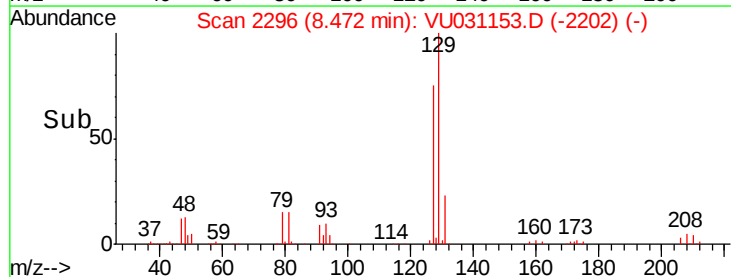
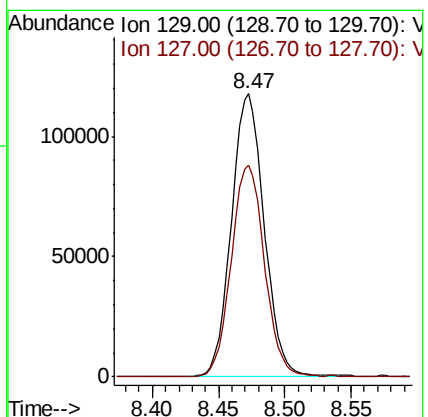
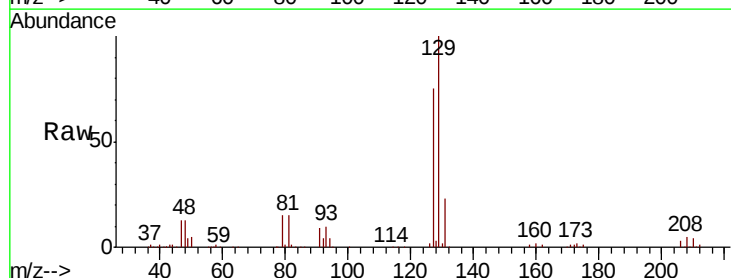
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

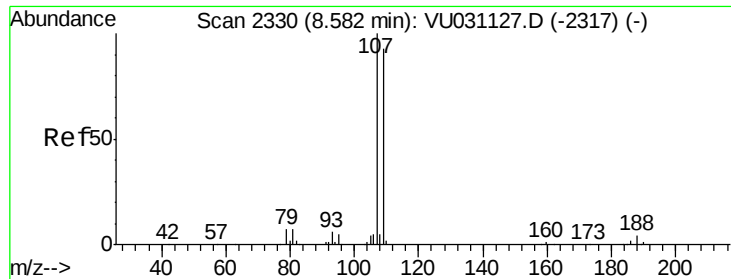
Tot Ion:	43	Resp:	498932
Ion	Ratio	Lower	Upper
43	100		
58	54.3	41.9	62.9
57	18.5	14.3	21.5
100	10.3	7.1	10.7



#49
Dibromochloromethane
Concen: 57.670 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

Tgt Ion:	129	Resp:	203203
Ion	Ratio	Lower	Upper
129	100		
127	74.9	54.5	101.3





#50

1,2-Dibromoethane

Concen: 53.368 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

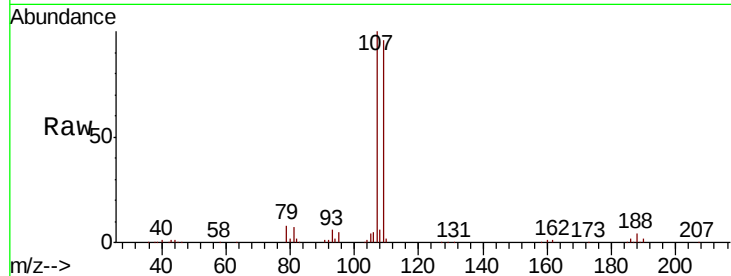
Tot Ion:107 Resp: 191764

Ion Ratio Lower Upper

107 100

109 96.1 66.4 123.2

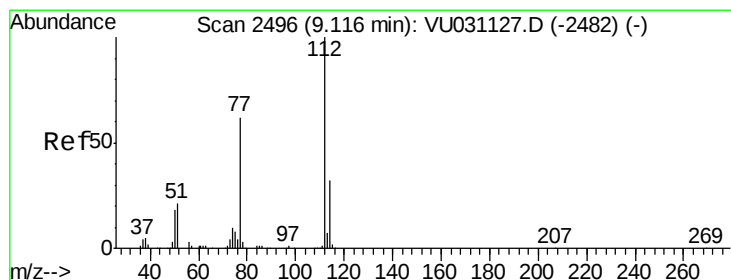
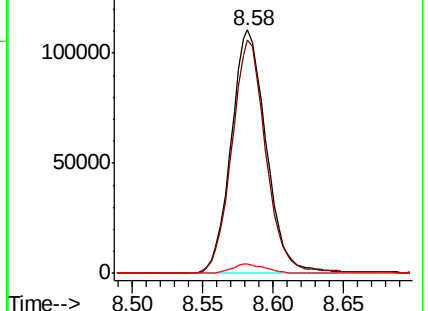
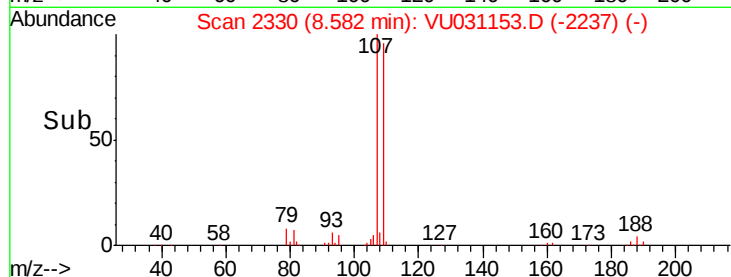
188 3.6 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 53.602 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

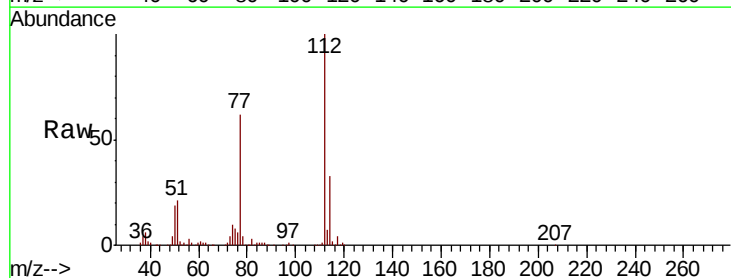
Tgt Ion:112 Resp: 464023

Ion Ratio Lower Upper

112 100

114 33.1 22.2 41.2

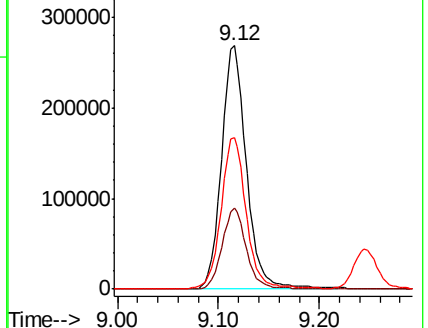
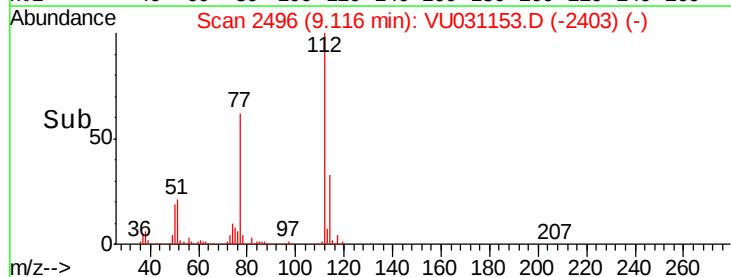
77 62.4 51.7 77.5

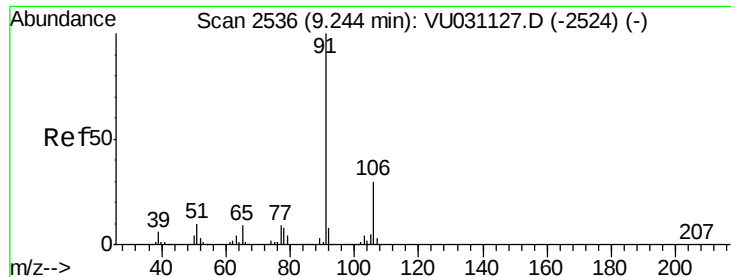


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU

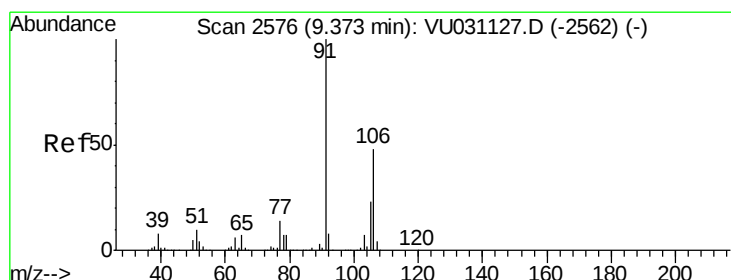
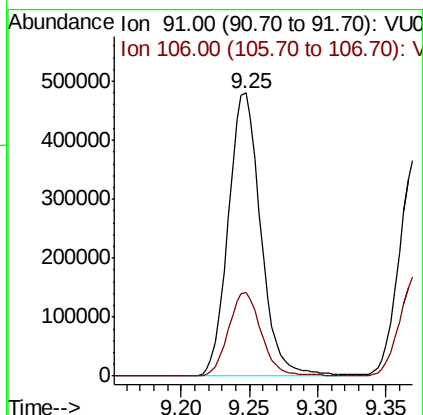
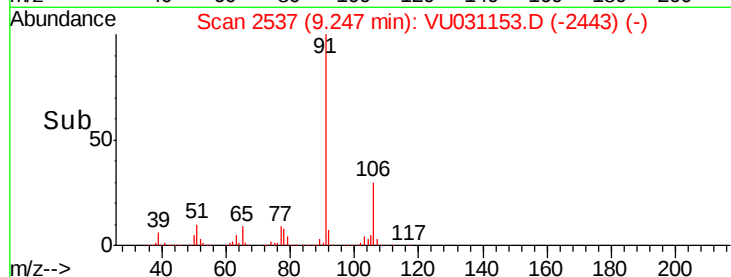
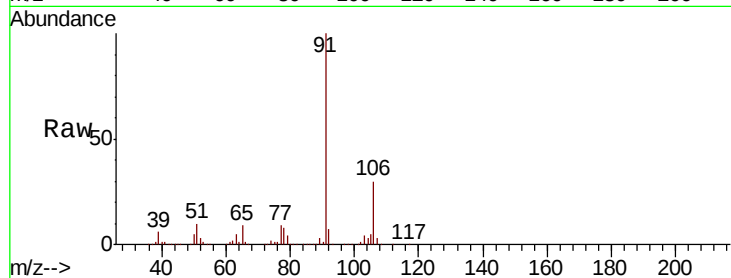




#52
Ethylbenzene
Concen: 51.605 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

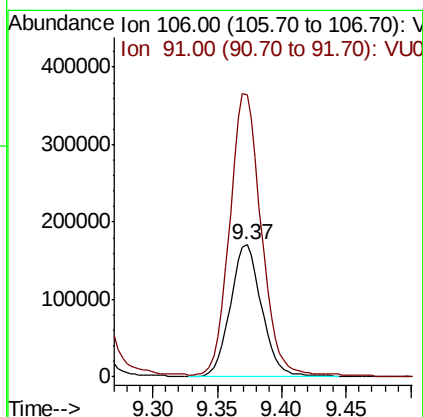
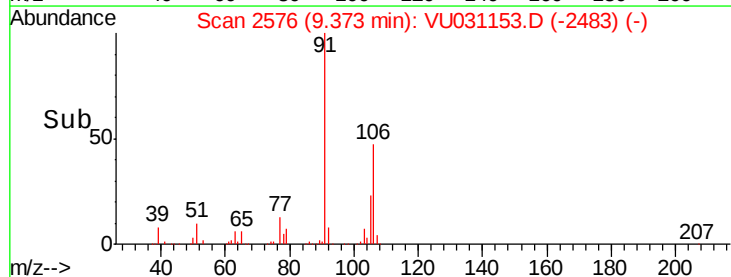
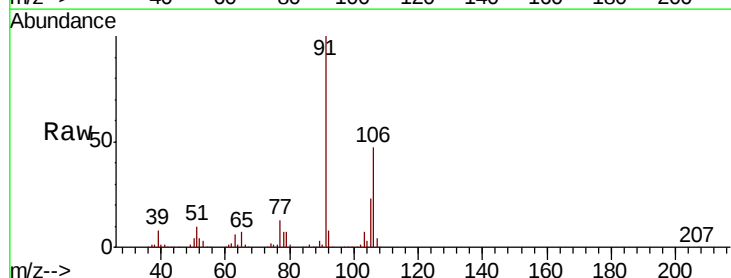
Instrument :
MSVOA_U
ClientSampleId :
VSTD05035

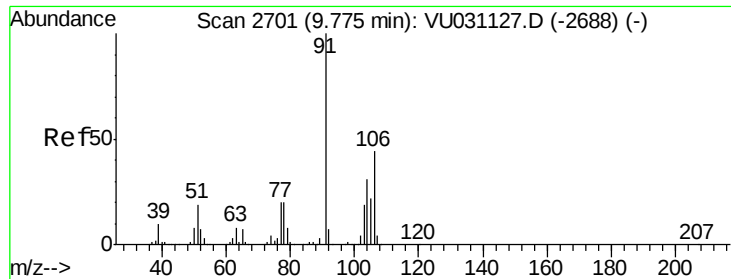
Tot Ion: 91 Resp: 793952
Ion Ratio Lower Upper
91 100
106 29.7 20.4 37.8



#53
m,p-Xylene
Concen: 53.177 ug/L
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU031153.D
Acq: 13 Apr 2019 11:15

Tgt Ion: 106 Resp: 285339
Ion Ratio Lower Upper
106 100
91 213.6 148.0 274.8





#54

o-xylene

Concen: 54.231 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

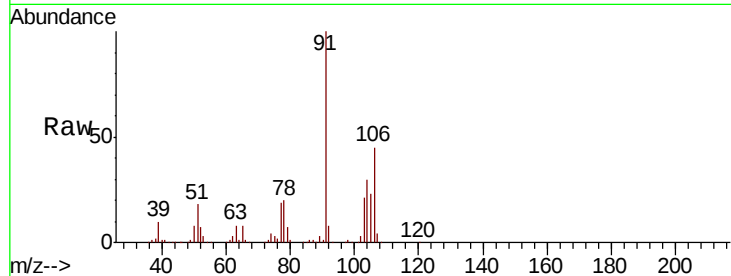
VSTD05035

Tot Ion:106 Resp: 289450

Ion Ratio Lower Upper

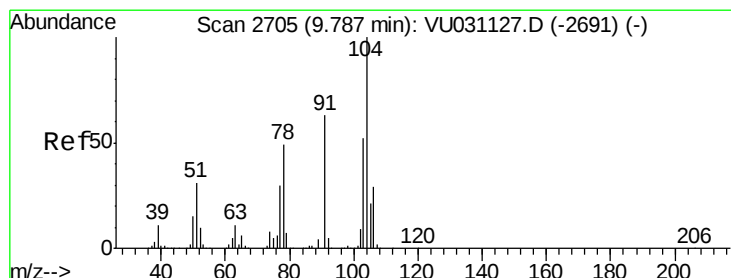
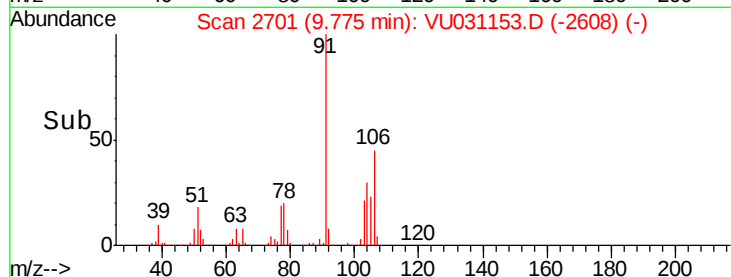
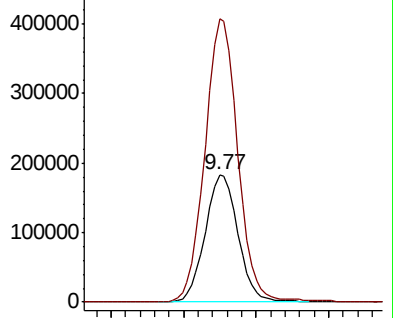
106 100

91 222.1 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.868 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031153.D

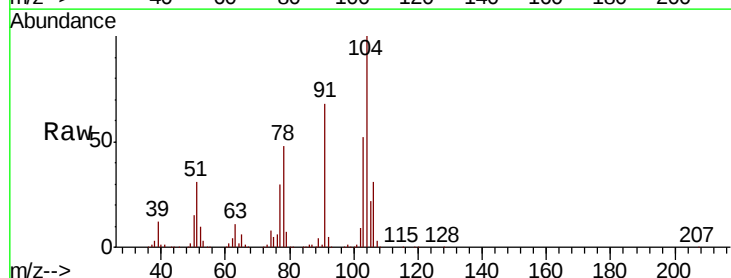
Acq: 13 Apr 2019 11:15

Tgt Ion:104 Resp: 511473

Ion Ratio Lower Upper

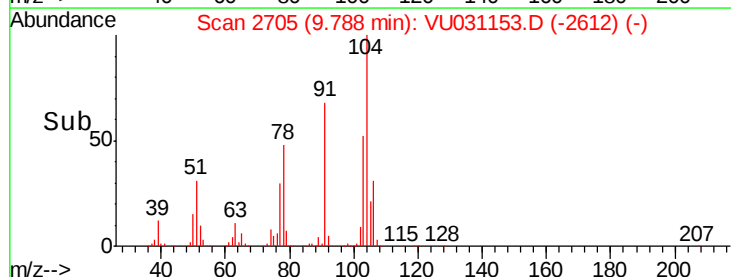
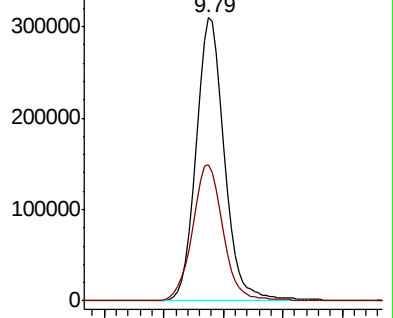
104 100

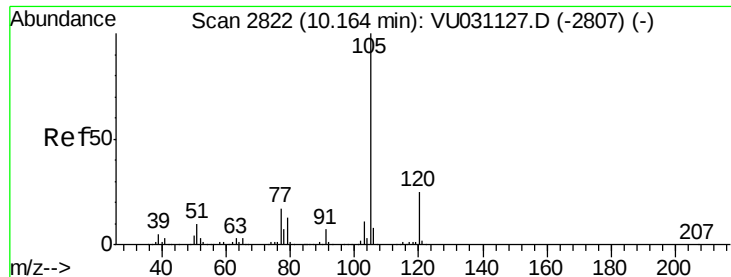
78 48.1 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.488 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

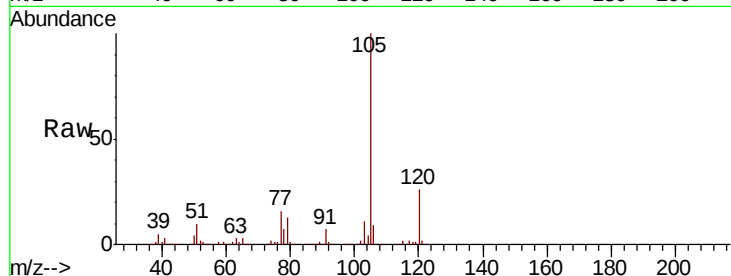
Tot Ion:105 Resp: 765698

Ion Ratio Lower Upper

105 100

120 25.0 20.4 30.6

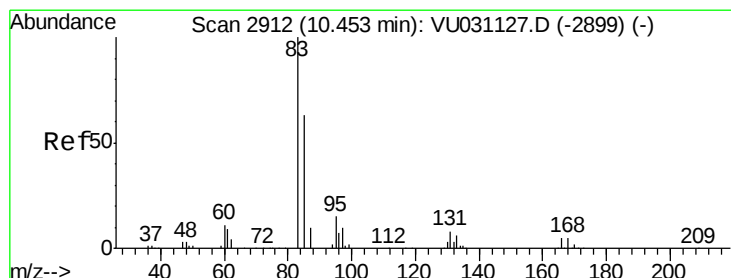
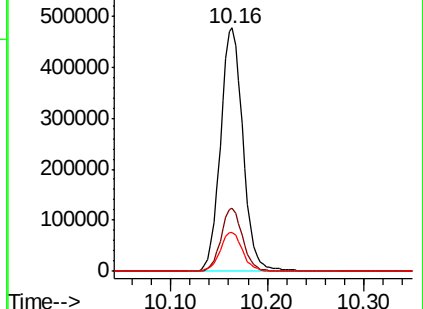
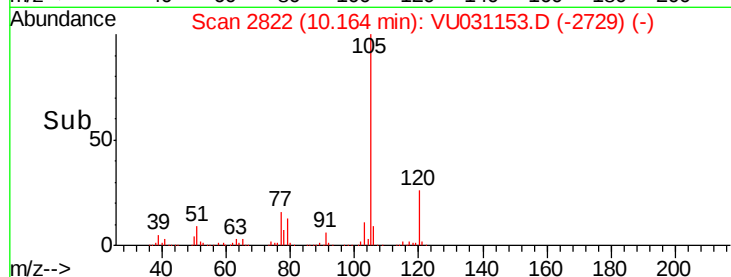
77 16.0 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 52.565 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

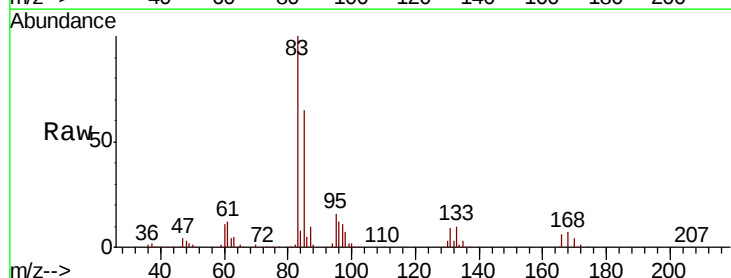
Tgt Ion: 83 Resp: 315723

Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1

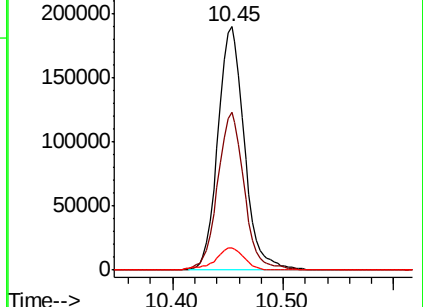
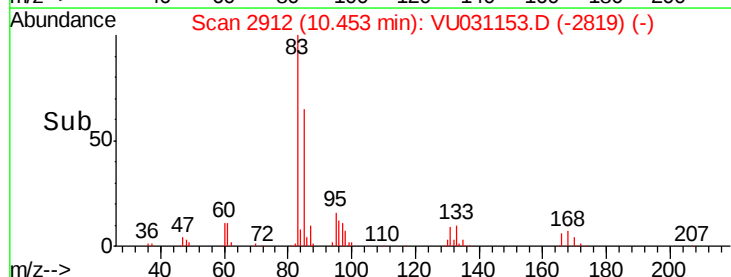
131 9.2 6.7 10.1

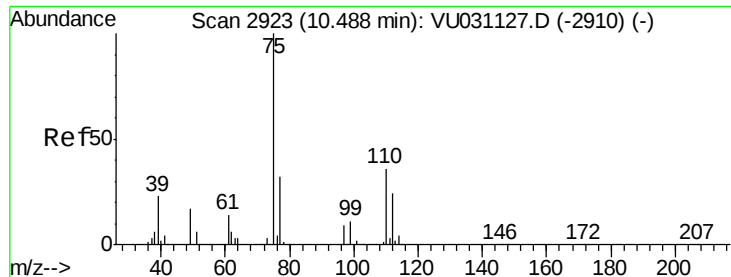


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.099 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

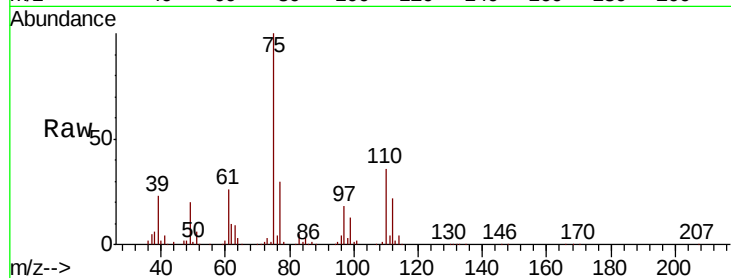
VSTD05035

Tot Ion: 75 Resp: 253687

Ion Ratio Lower Upper

75 100

77 30.9 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU031127.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031127.D (-2910) (-)

10.49

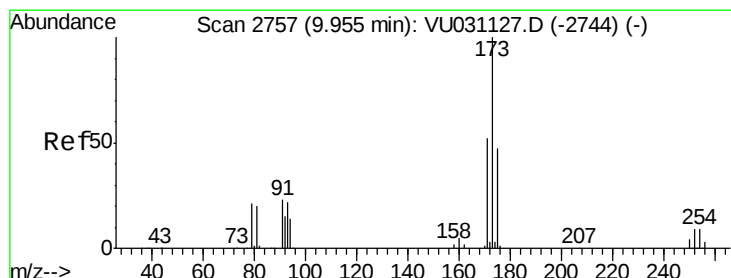
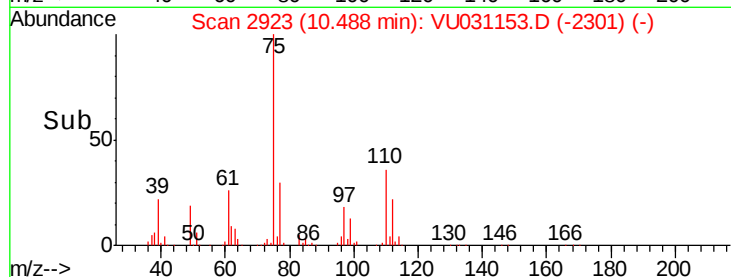
150000

100000

50000

0

Time--> 10.40 10.50



#61

Bromoform

Concen: 57.342 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

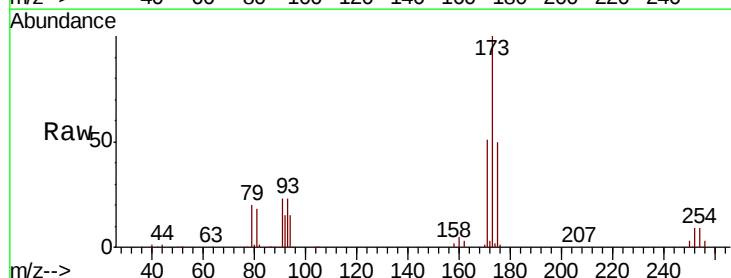
Tgt Ion: 173 Resp: 145594

Ion Ratio Lower Upper

173 100

175 49.1 39.1 58.7

254 8.8 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU031127.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU031127.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU031127.D (-2744) (-)

9.95

120000

100000

80000

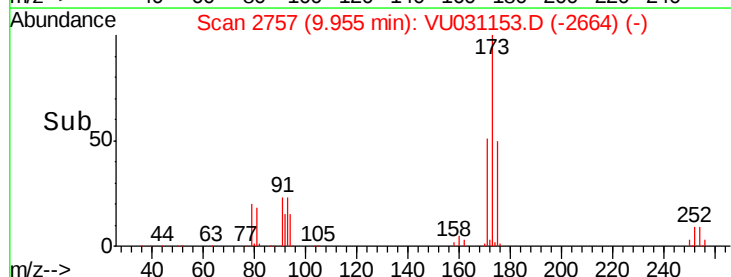
60000

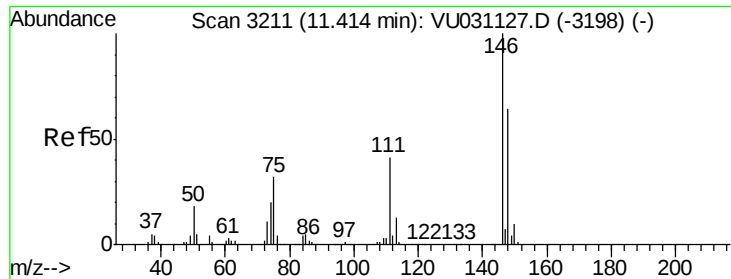
40000

20000

0

Time--> 9.90 9.95 10.00





#62

1,3-Dichlorobenzene

Concen: 53.415 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

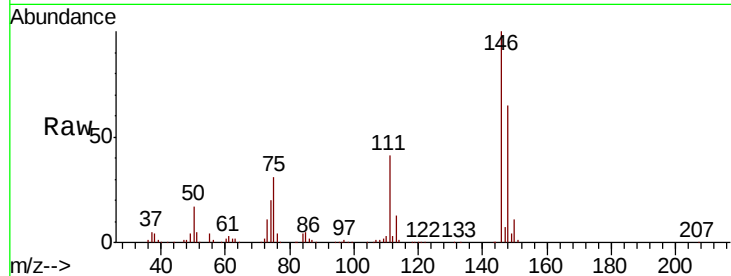
Tot Ion:146 Resp: 324471

Ion Ratio Lower Upper

146 100

111 40.7 30.9 57.5

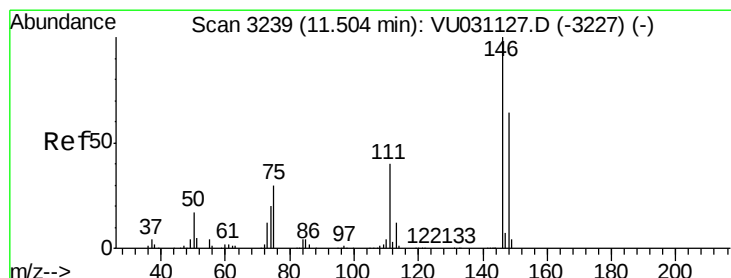
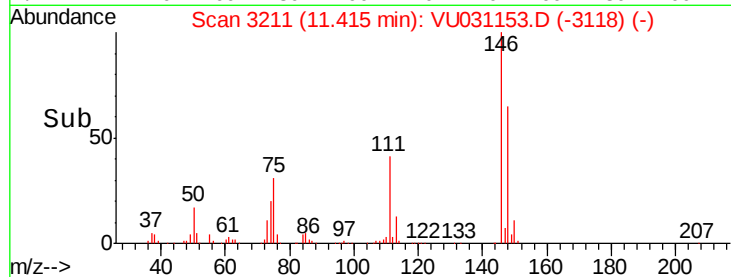
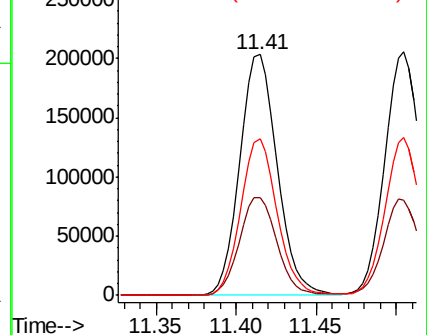
148 64.9 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 54.169 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

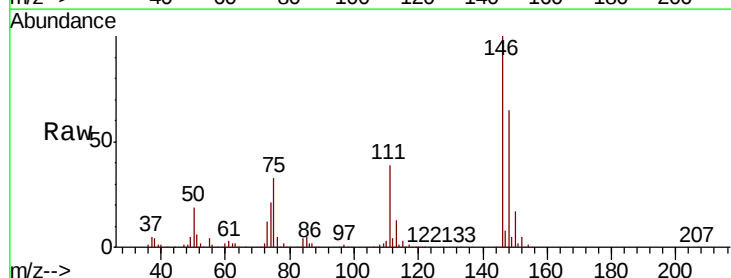
Tgt Ion:146 Resp: 334703

Ion Ratio Lower Upper

146 100

111 39.0 27.7 51.5

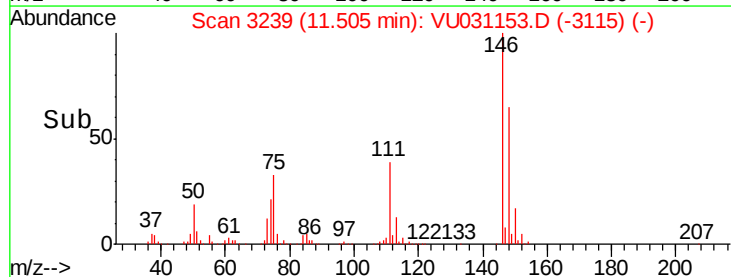
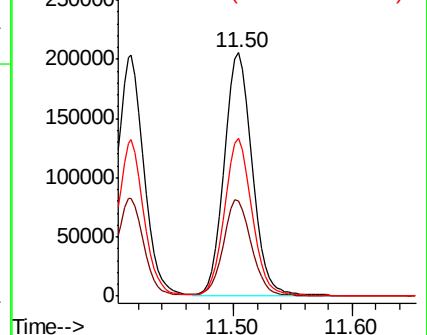
148 64.9 45.4 84.4

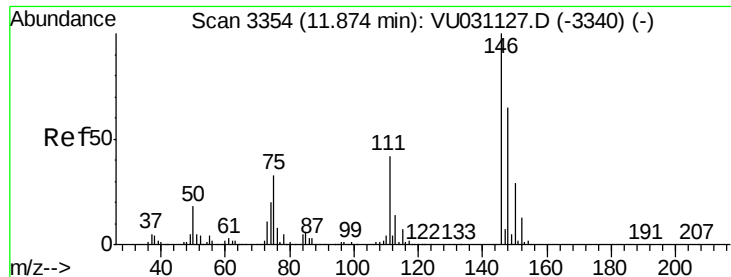


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

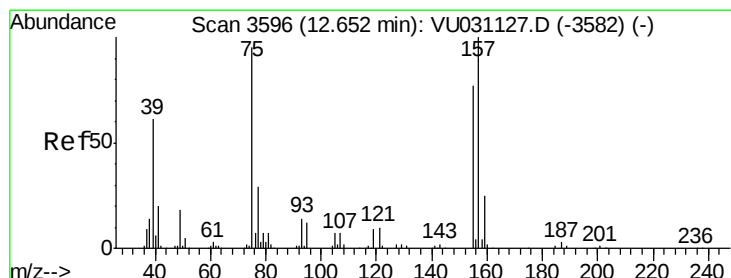
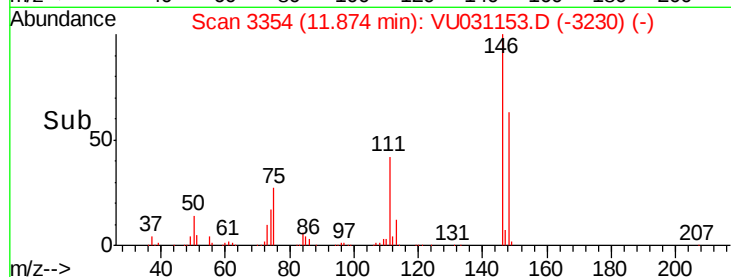
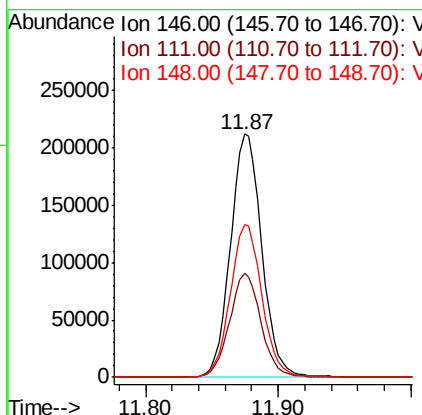
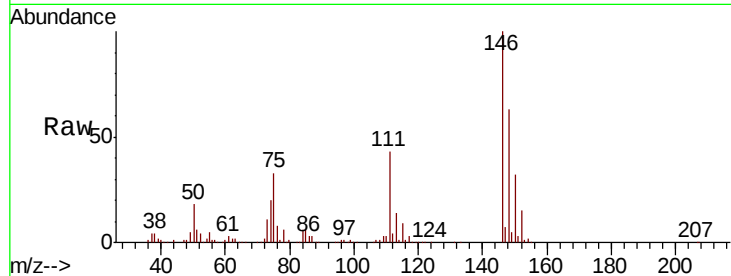




#65
 1,2-Dichlorobenzene
 Concen: 57.103 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

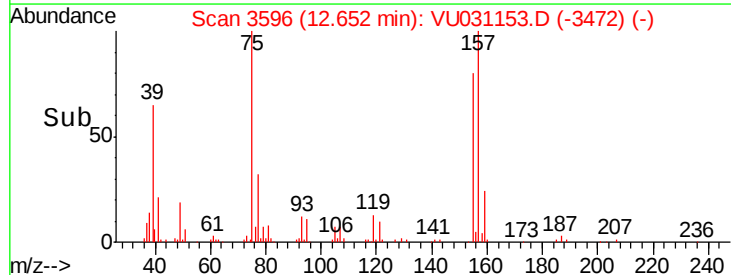
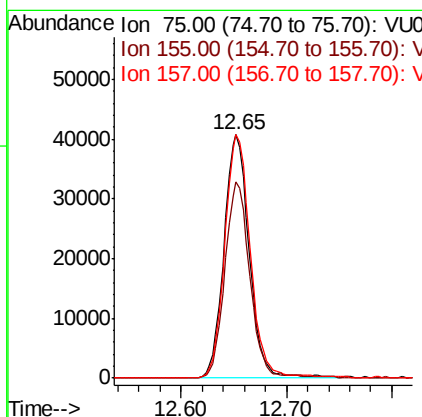
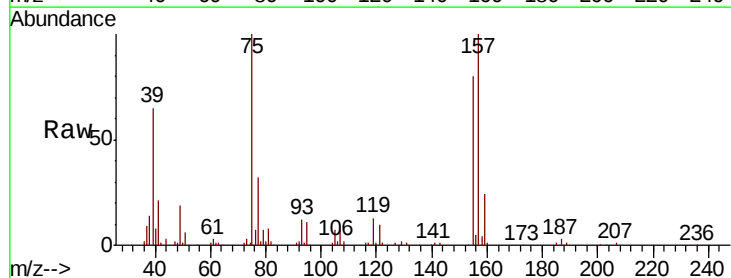
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05035

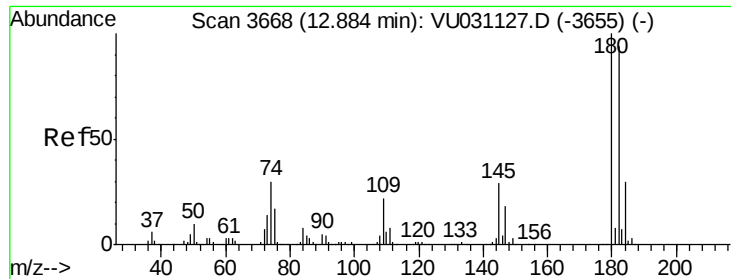
Tot Ion:146 Resp: 347946
 Ion Ratio Lower Upper
 146 100
 111 42.7 34.9 52.3
 148 62.8 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.947 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Tgt Ion: 75 Resp: 67289
 Ion Ratio Lower Upper
 75 100
 155 80.4 64.1 96.1
 157 100.0 80.6 120.8

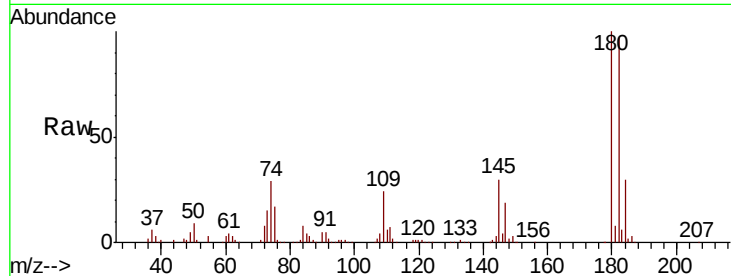




#67
 1,3,5-Trichlorobenzene
 Concen: 54.783 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05035

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.4	78.3	117.5
184	30.6	24.7	37.1
145	29.6	24.2	36.4



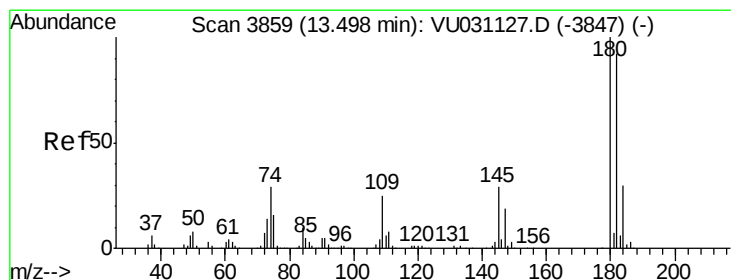
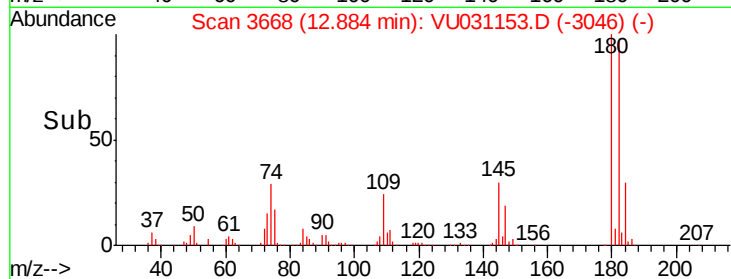
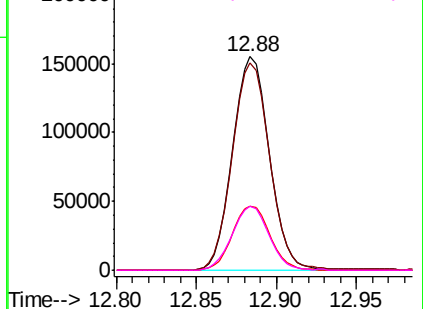
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

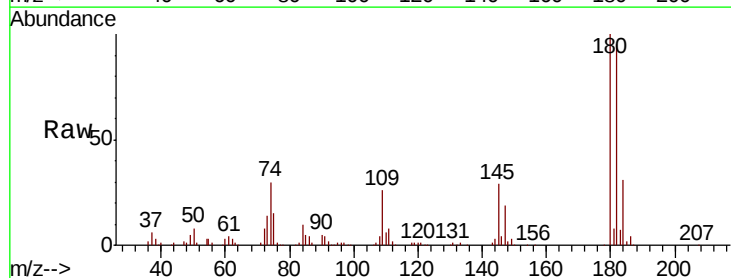
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.655 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031153.D
 Acq: 13 Apr 2019 11:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.7	115.1
145	29.1	24.4	36.6

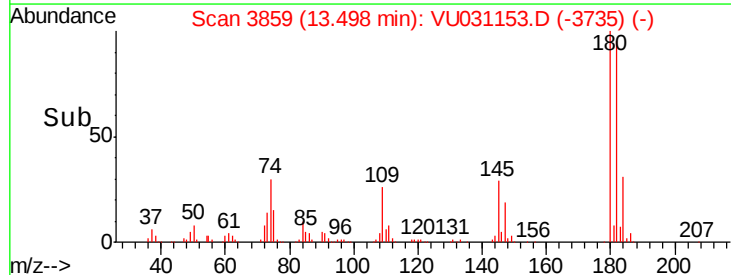
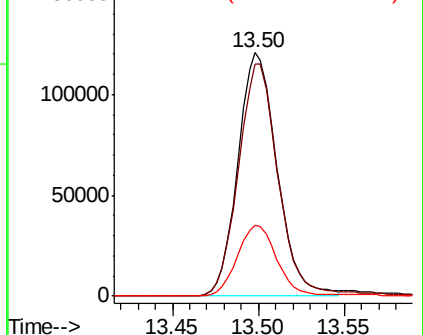


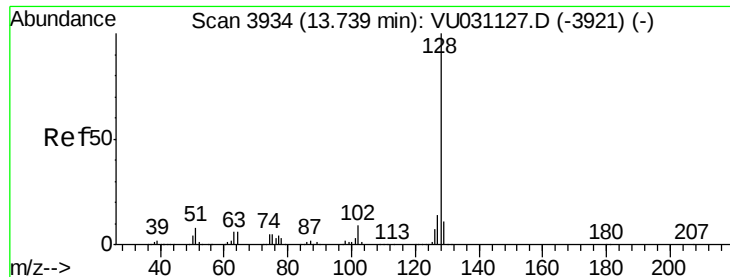
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 51.189 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05035

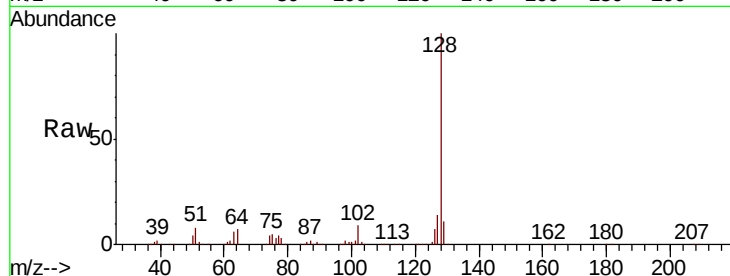
Tot Ion:128 Resp: 626356

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

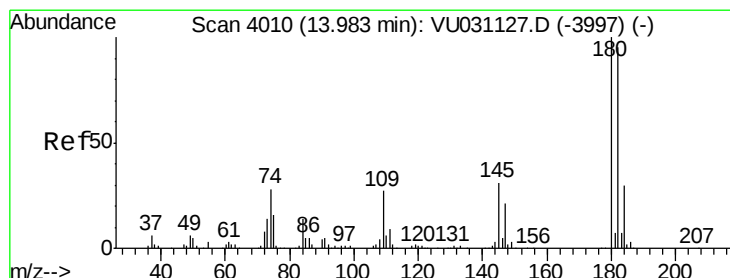
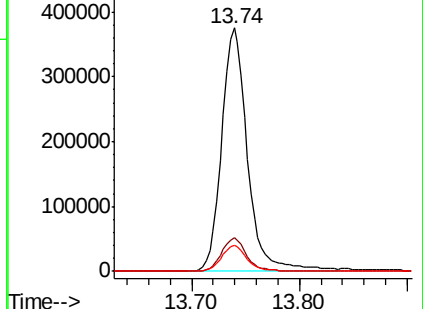
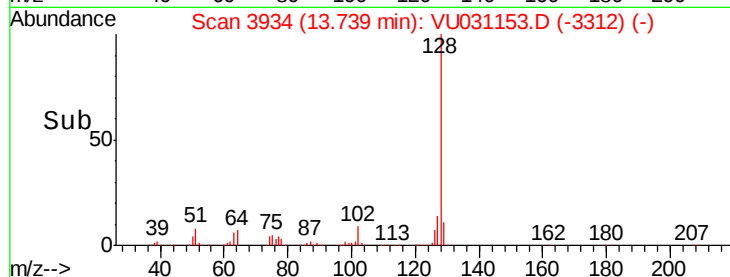
129 10.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 56.542 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031153.D

Acq: 13 Apr 2019 11:15

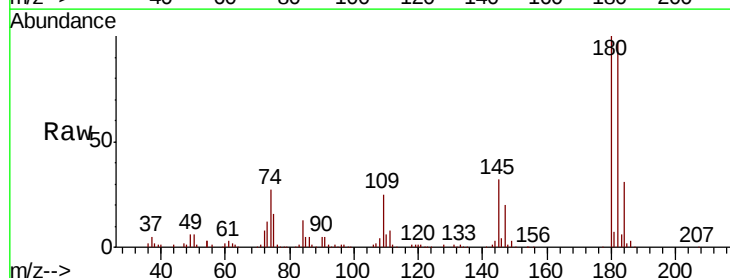
Tgt Ion:180 Resp: 222980

Ion Ratio Lower Upper

180 100

182 95.9 78.1 117.1

145 31.1 26.6 40.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

