

Data File : VU031958.D
Acq On : 13 May 2019 09:25
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

Quant Time: May 14 02:37:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon May 13 07:00:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	466884	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	473050	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	207875	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	169423	5.33	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	106.60%
7) Chloroethane-d5	1.67	69	155960	5.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	118.80%
11) 1,1-Dichloroethene-d2	2.27	63	332687	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.19	46	557180	44.85	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.70%
24) Chloroform-d	4.64	84	334846	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
26) 1,2-Dichloroethane-d4	5.31	65	177454	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
32) Benzene-d6	5.33	84	614947	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.32	67	212018	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.56	98	521095	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
43) trans-1,3-Dichloropropene-	7.85	79	75794	4.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.20%
46) 2-Hexanone-d5	8.31	63	435447	55.18	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.36%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	189590	5.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	197493	5.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	215901	4.017 ug/L	98
3) Chloromethane	1.32	50	244163	3.811 ug/L	99
5) Vinyl chloride	1.40	62	255425	4.562 ug/L	100
6) Bromomethane	1.62	94	143995	5.602 ug/L	99
8) Chloroethane	1.69	64	155924	5.056 ug/L	99
9) Trichlorofluoromethane	1.88	101	308852	4.769 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	196196	5.821 ug/L	94
12) 1,1-Dichloroethene	2.28	96	182556	5.752 ug/L	75
13) Acetone	2.32	43	364579	42.967 ug/L	82
14) Carbon disulfide	2.47	76	564026	5.049 ug/L	99
15) Methyl Acetate	2.62	43	97013	4.432 ug/L #	90
16) Methylene chloride	2.70	84	214608	4.873 ug/L	83
17) Methyl tert-butyl Ether	3.00	73	505522	5.347 ug/L #	91
18) trans-1,2-Dichloroethene	2.98	96	197014	5.760 ug/L	84
19) 1,1-Dichloroethane	3.44	63	371950	4.421 ug/L	97
21) 2-Butanone	4.27	43	562956	39.703 ug/L	85
22) cis-1,2-Dichloroethene	4.22	96	210846	5.132 ug/L	76

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.54	128	87003	5.277	ug/L #	73
25) Chloroform	4.67	83	366043	4.421	ug/L	97
27) 1,2-Dichloroethane	5.40	62	228209	4.176	ug/L #	92
29) 1,1,1-Trichloroethane	4.91	97	286126	4.413	ug/L	95
30) Cyclohexane	4.98	56	297679	4.193	ug/L	88
31) Carbon tetrachloride	5.13	117	239340	4.335	ug/L	99
33) Benzene	5.38	78	801349	4.858	ug/L	100
34) Trichloroethene	6.18	95	198001	4.761	ug/L	92
35) Methylcyclohexane	6.41	83	295184	4.942	ug/L	89
37) 1,2-Dichloropropane	6.43	63	215171	4.558	ug/L #	98
38) Bromodichloromethane	6.75	83	260537	4.634	ug/L	94
39) cis-1,3-Dichloropropene	7.27	75	274695	4.644	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1296787	40.820	ug/L #	89
42) Toluene	7.63	91	847642	5.205	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	224591	4.794	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	147248	5.265	ug/L	99
47) Tetrachloroethene	8.22	164	140766	5.206	ug/L	95
48) 2-Hexanone	8.36	43	981679	43.478	ug/L #	90
49) Dibromochloromethane	8.47	129	163052	5.013	ug/L	97
50) 1,2-Dibromoethane	8.58	107	132741	5.216	ug/L	93
51) Chlorobenzene	9.12	112	501894	5.184	ug/L	92
52) Ethylbenzene	9.24	91	852597	5.018	ug/L	99
53) m,p-Xylene	9.37	106	318661	5.269	ug/L	95
54) o-Xylene	9.77	106	314519	5.438	ug/L	95
55) Styrene	9.79	104	550712	5.549	ug/L	93
56) Isopropylbenzene	10.16	105	806673	5.210	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	186121	4.982	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	136885	4.899	ug/L	97
61) Bromoform	9.95	173	88038	5.293	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	346804	5.254	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	362520	5.414	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	357317	5.548	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.65	75	27628	4.563	ug/L #	71
67) 1,3,5-Trichlorobenzene	12.88	180	272403	5.431	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	201642	5.443	ug/L	94
69) Naphthalene	13.74	128	365527	5.752	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	214583	6.222	ug/L	97

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

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Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

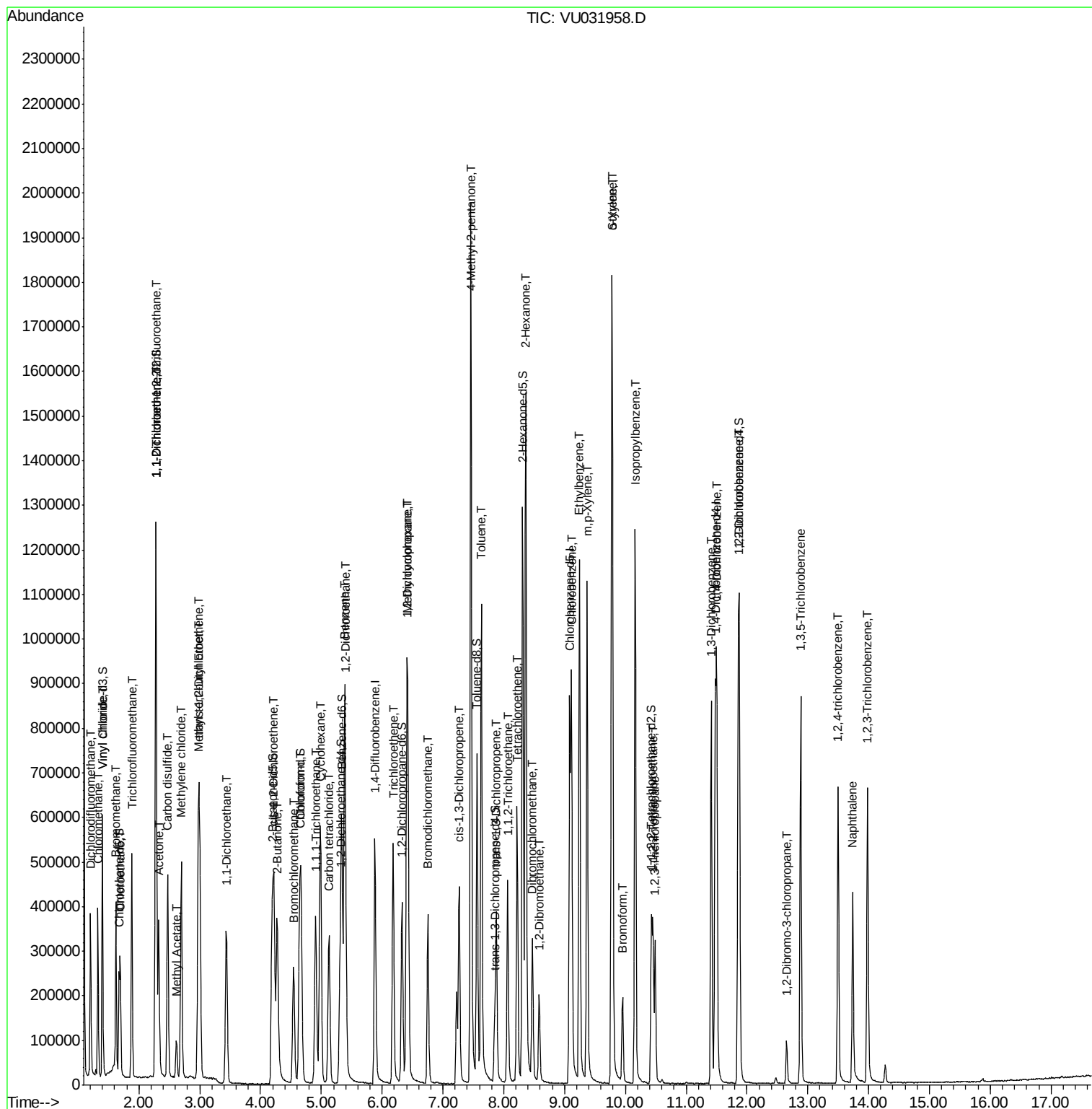
Quant Time: May 14 02:37:33 2019

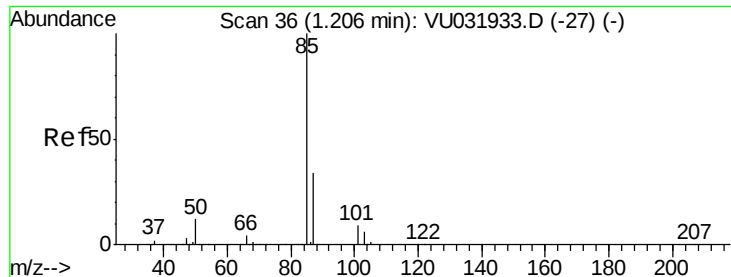
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR050819WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon May 13 07:00:03 2019

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#2

Dichlorodifluoromethane

Concen: 4.017 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

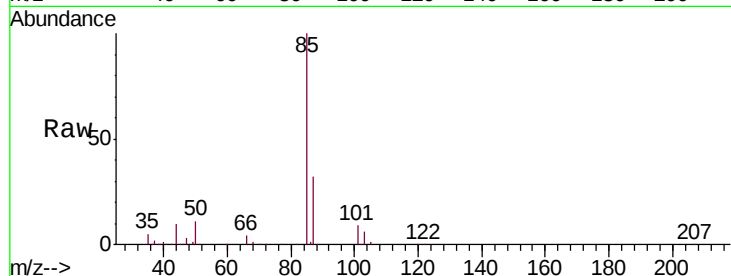
VSTD00529

Tgt Ion: 85 Resp: 215901

Ion Ratio Lower Upper

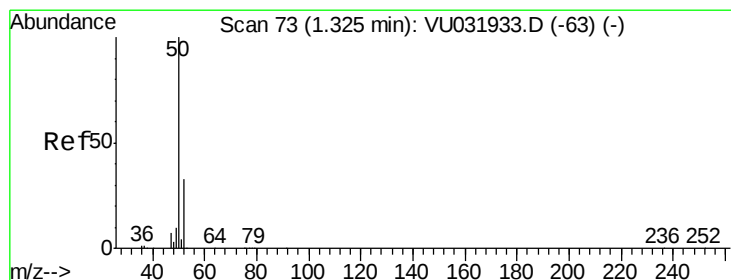
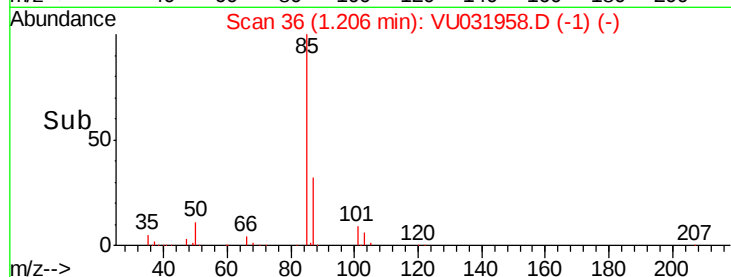
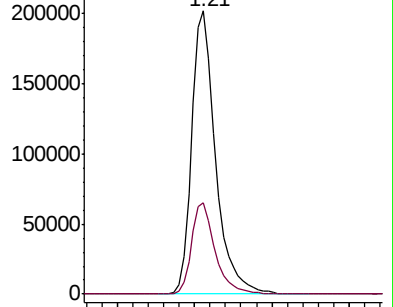
85 100

87 31.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU031933.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031933.D (-27) (-)



#3

Chloromethane

Concen: 3.811 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031958.D

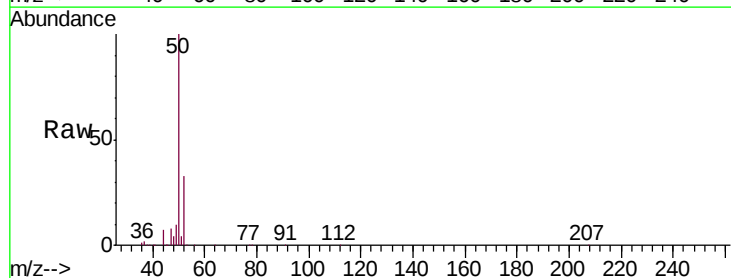
Acq: 13 May 2019 09:25

Tgt Ion: 50 Resp: 244163

Ion Ratio Lower Upper

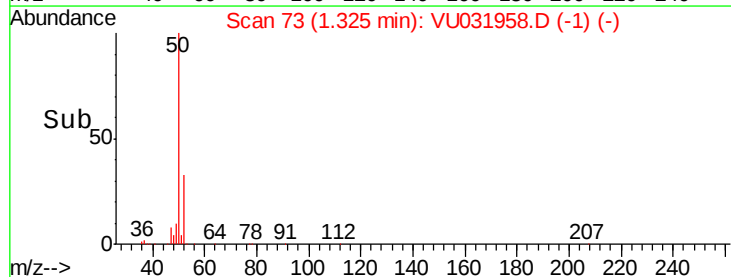
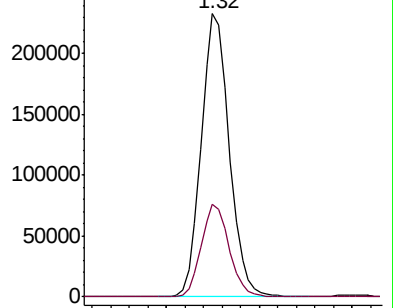
50 100

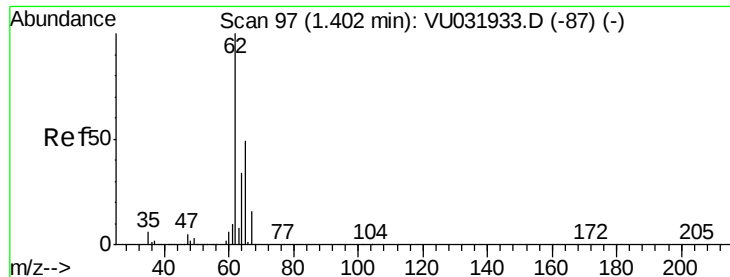
52 32.5 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VU031933.D (-63) (-)

Ion 52.05 (51.75 to 52.75): VU031933.D (-63) (-)





#5

Vinyl chloride

Concen: 4.562 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

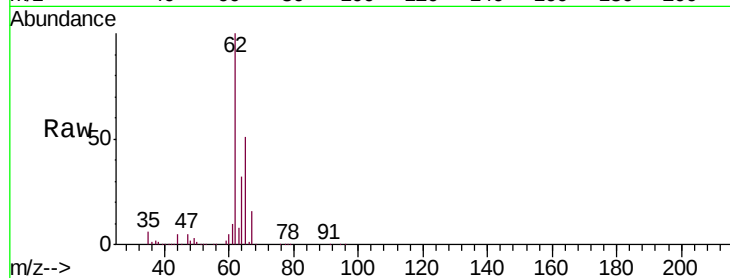
VSTD00529

Tgt Ion: 62 Resp: 255425

Ion Ratio Lower Upper

62 100

64 32.4 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU031933.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU031933.D (-87) (-)

1.40

250000

200000

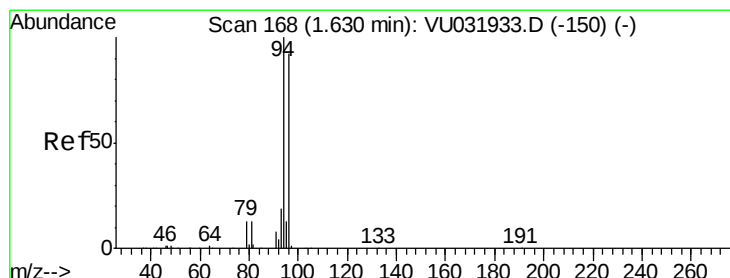
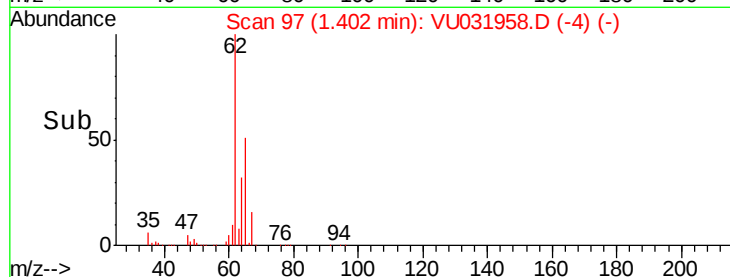
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 5.602 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.01 min

Lab File: VU031958.D

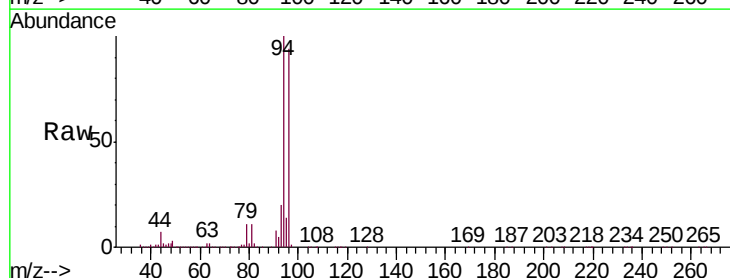
Acq: 13 May 2019 09:25

Tgt Ion: 94 Resp: 143995

Ion Ratio Lower Upper

94 100

96 93.5 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU031933.D (-150) (-)

Ion 96.00 (95.70 to 96.70): VU031933.D (-150) (-)

1.62

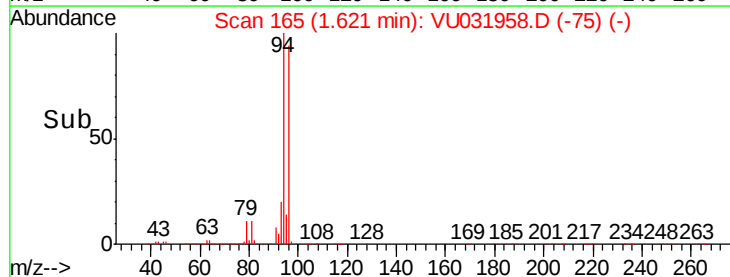
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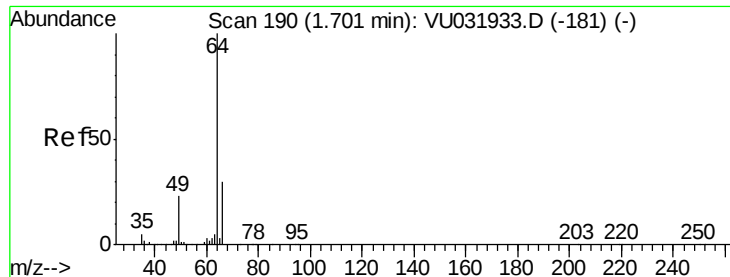
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50000

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Time-->

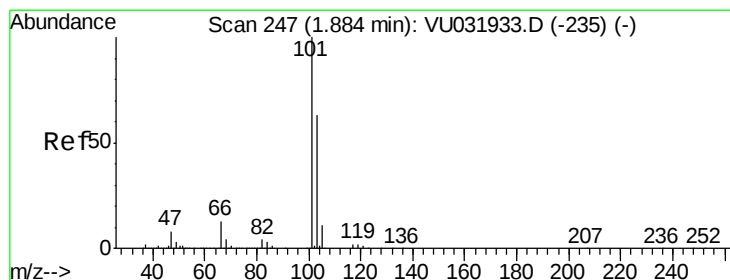
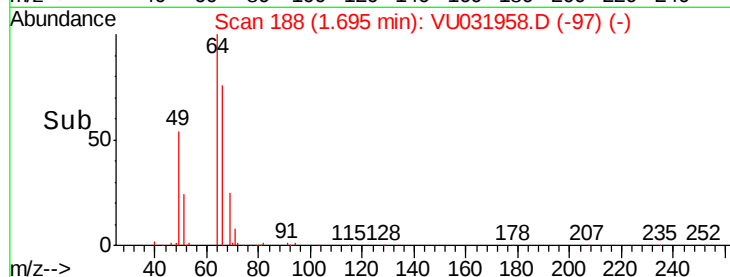
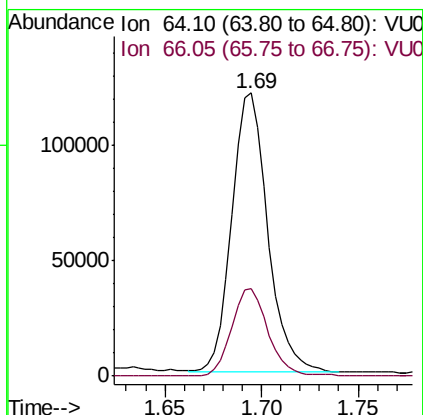
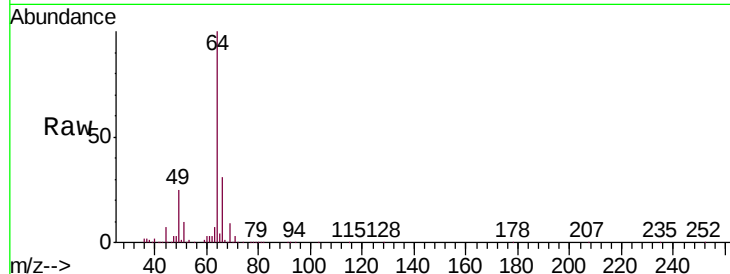




#8
Chloroethane
Concen: 5.056 ug/L
RT: 1.69 min Scan# 188
Delta R.T. -0.01 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

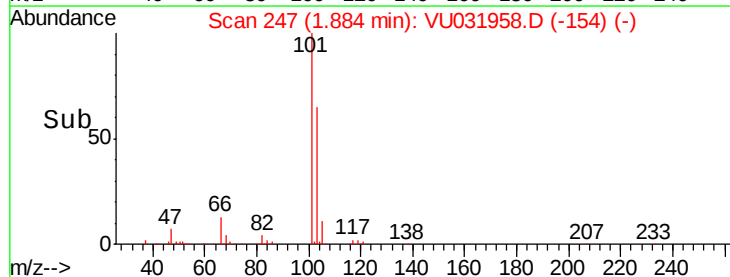
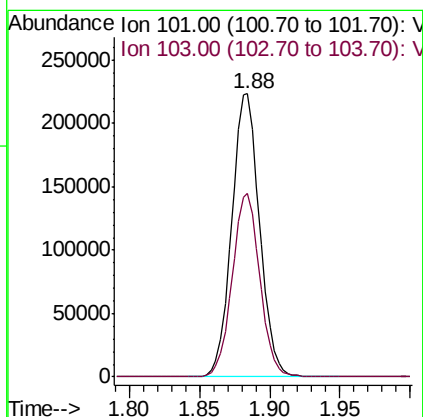
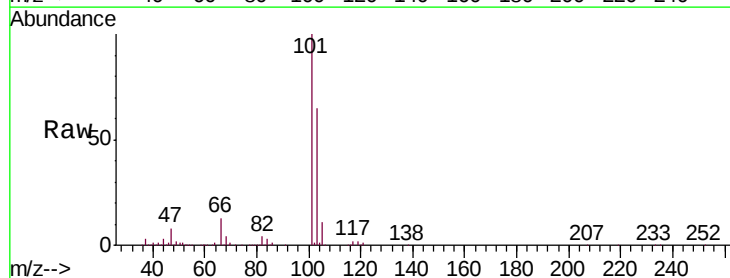
Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

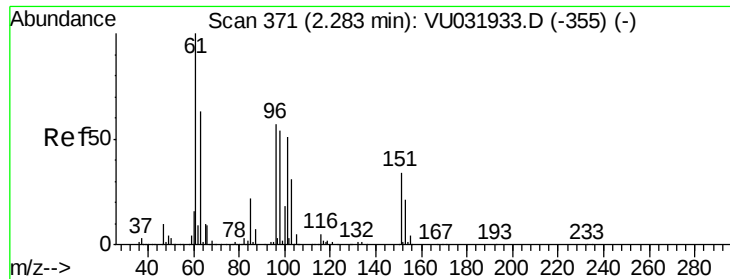
Tgt Ion: 64 Resp: 155924
Ion Ratio Lower Upper
64 100
66 30.9 21.9 40.7



#9
Trichlorofluoromethane
Concen: 4.769 ug/L
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

Tgt Ion: 101 Resp: 308852
Ion Ratio Lower Upper
101 100
103 64.3 52.1 78.1





#10

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

Concen: 5.821 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

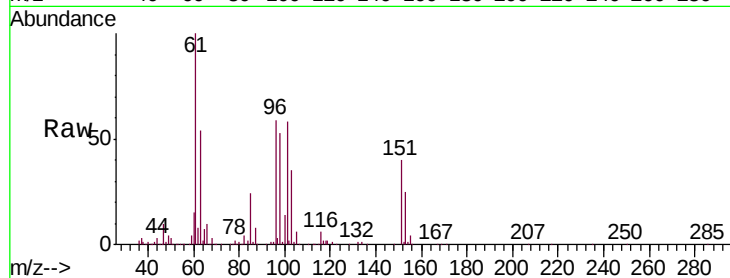
Tgt Ion: 101 Resp: 196196

Ion Ratio Lower Upper

101 100

85 41.9 40.0 60.0

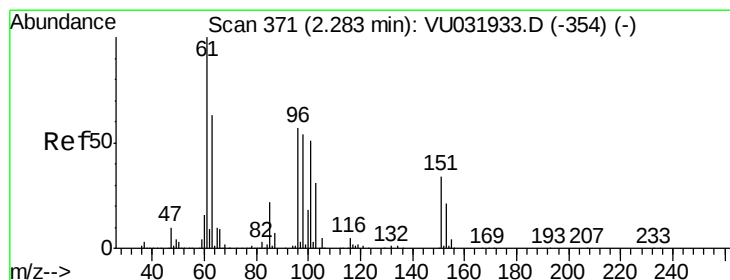
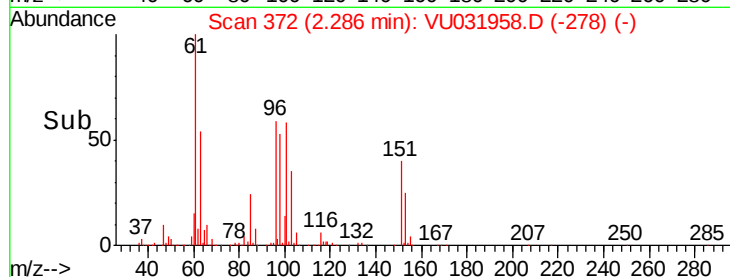
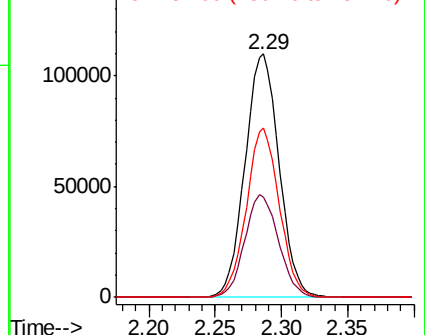
151 67.3 54.6 82.0



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: 5.752 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

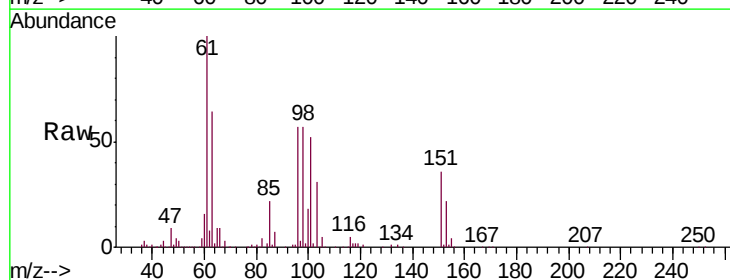
Tgt Ion: 96 Resp: 182556

Ion Ratio Lower Upper

96 100

61 174.0 149.0 276.6

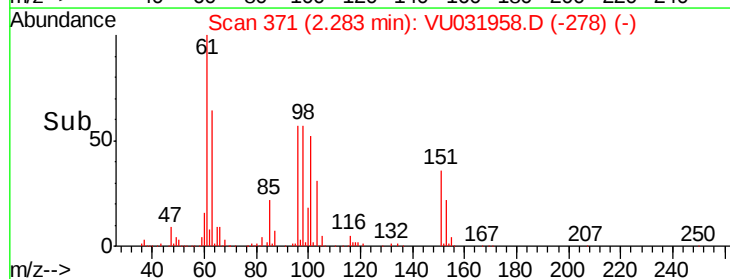
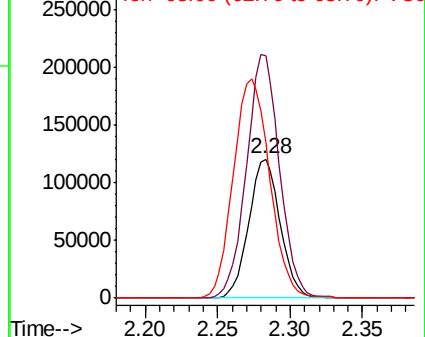
63 111.2 99.8 185.4

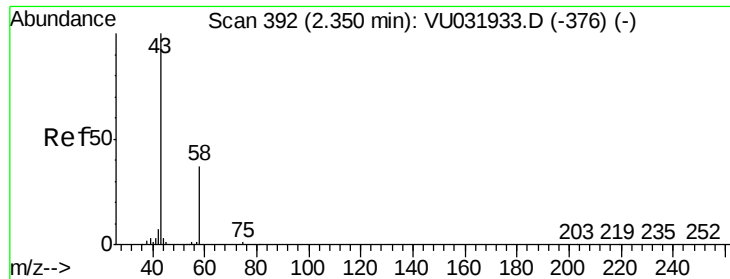


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 42.967 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.03 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

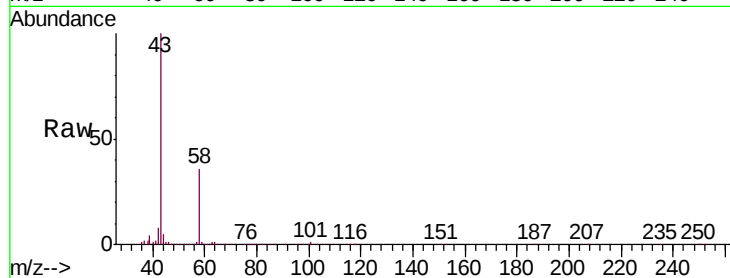
VSTD00529

Tgt Ion: 43 Resp: 364579

Ion Ratio Lower Upper

43 100

58 36.2 0.0 53.6



Abundance Ion 43.05 (42.75 to 43.75): VU031933.D (-376) (-)

Ion 58.05 (57.75 to 58.75): VU031933.D (-376) (-)

2.32

200000

150000

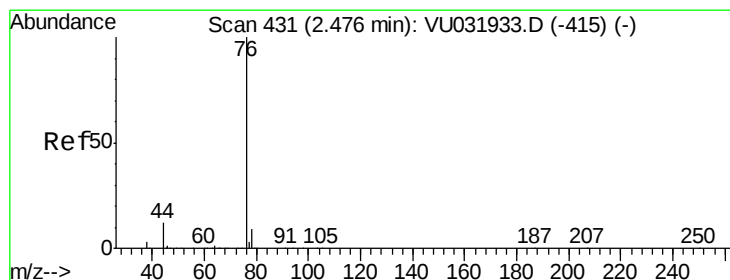
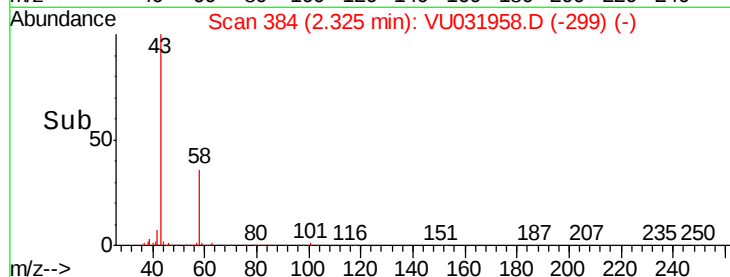
100000

50000

0

Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 5.049 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031958.D

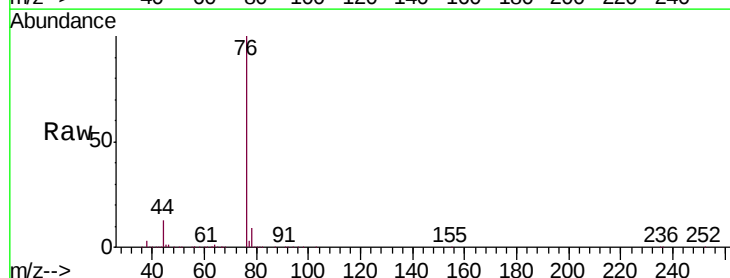
Acq: 13 May 2019 09:25

Tgt Ion: 76 Resp: 564026

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU031933.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031933.D (-415) (-)

2.47

400000

300000

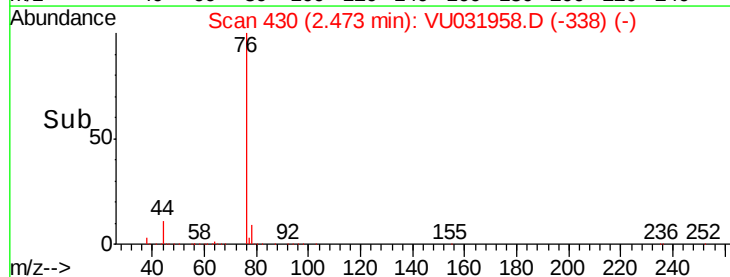
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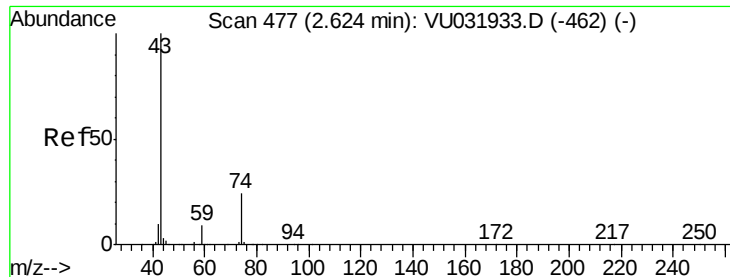
100000

0

Time-->

2.40 2.45 2.50 2.55 2.60

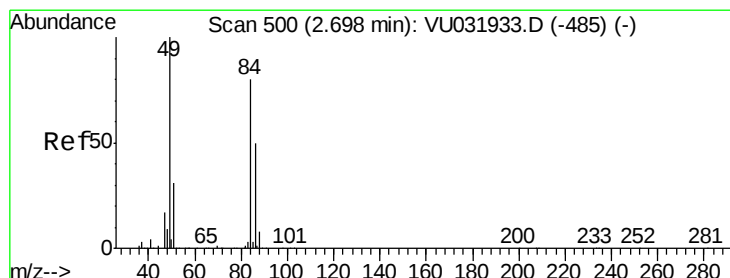
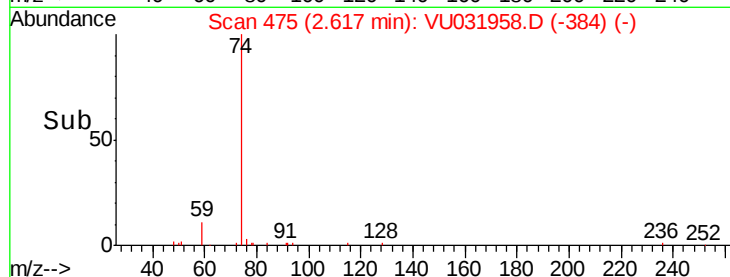
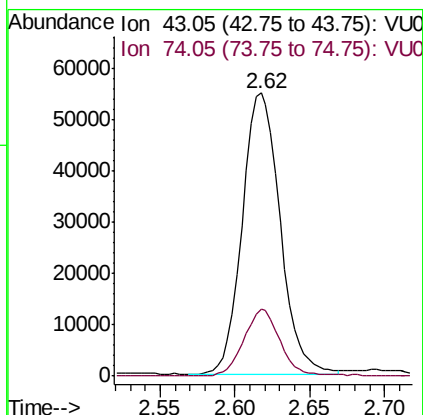
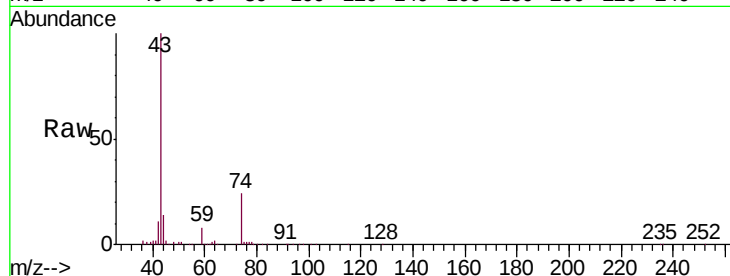




#15
Methyl Acetate
Concen: 4.432 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.01 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

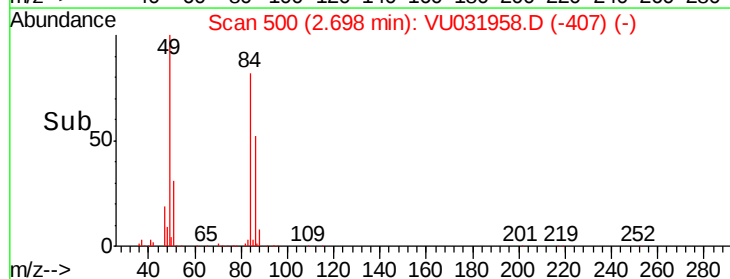
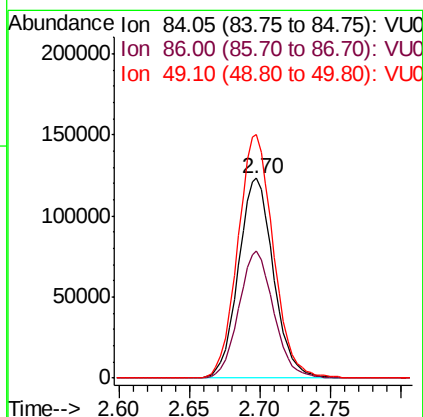
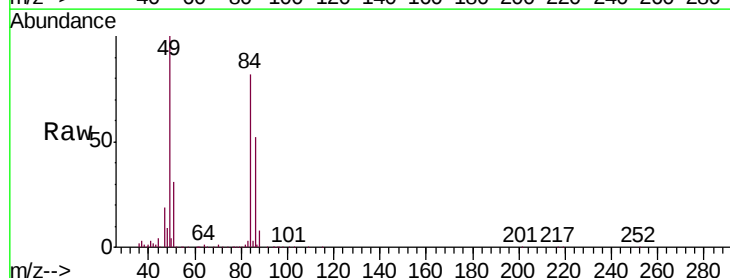
Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

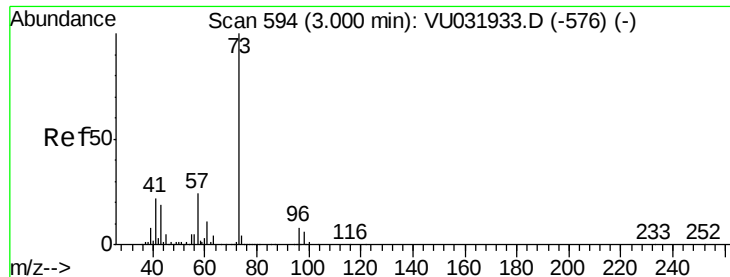
Tgt Ion: 43 Resp: 97013
Ion Ratio Lower Upper
43 100
74 22.7 14.7 22.1#



#16
Methylene chloride
Concen: 4.873 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

Tgt Ion: 84 Resp: 214608
Ion Ratio Lower Upper
84 100
86 63.4 45.6 84.8
49 121.7 106.7 198.1





#17

Methyl tert-butyl Ether

Concen: 5.347 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

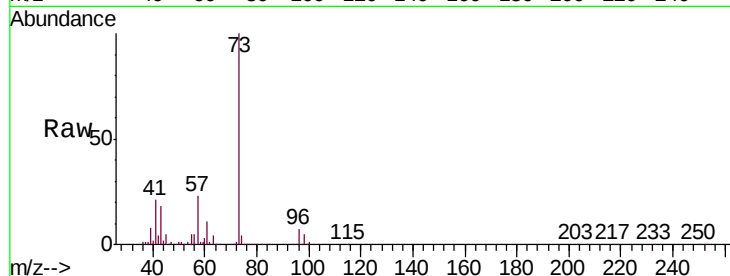
Tgt Ion: 73 Resp: 505522

Ion Ratio Lower Upper

73 100

43 18.1 20.5 30.7#

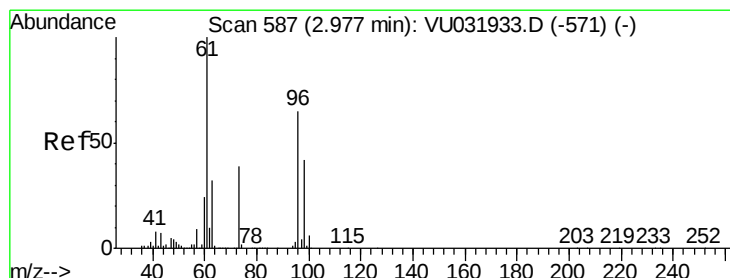
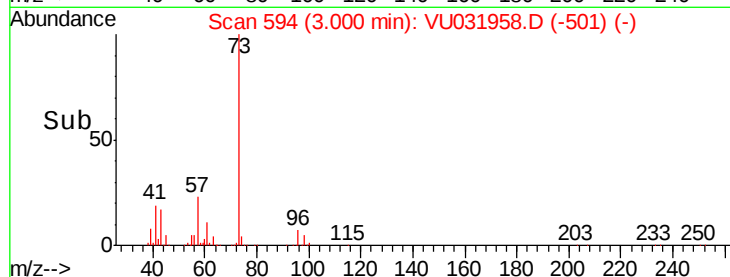
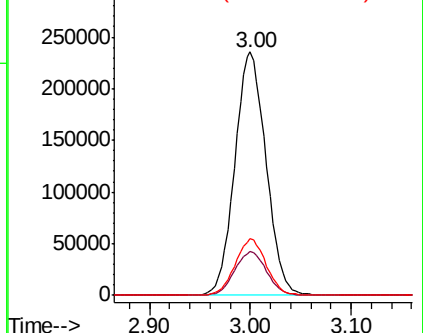
57 23.1 19.9 29.9



Abundance Ion 73.10 (72.80 to 73.80): VU031933.D (-576) (-)

Ion 43.05 (42.75 to 43.75): VU031933.D (-576) (-)

Ion 57.10 (56.80 to 57.80): VU031933.D (-576) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.760 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

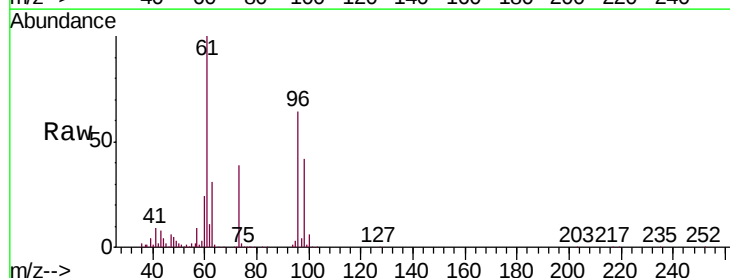
Tgt Ion: 96 Resp: 197014

Ion Ratio Lower Upper

96 100

61 155.1 130.9 243.1

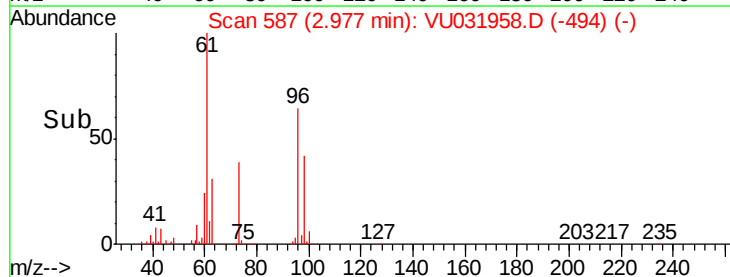
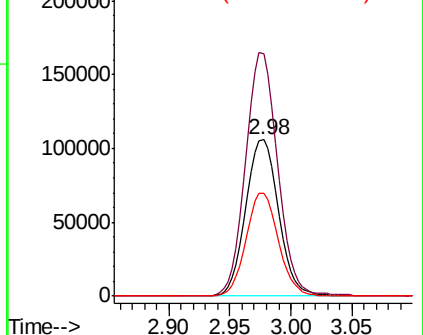
98 65.8 46.2 85.8

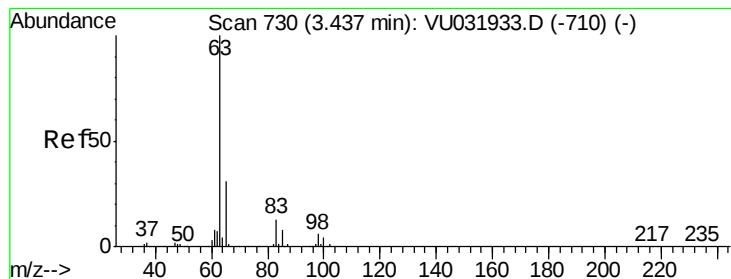


Abundance Ion 96.00 (95.70 to 96.70): VU031933.D (-571) (-)

Ion 61.05 (60.75 to 61.75): VU031933.D (-571) (-)

Ion 97.95 (97.65 to 98.65): VU031933.D (-571) (-)





#19

1,1-Dichloroethane

Concen: 4.421 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

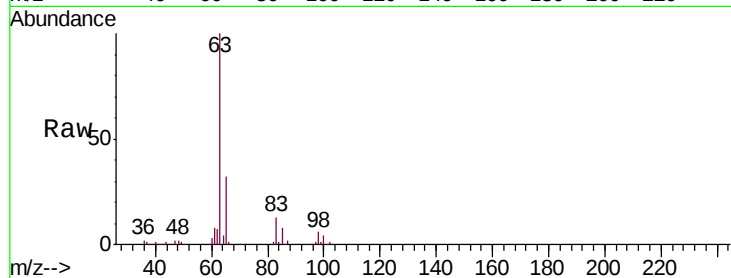
Tgt Ion: 63 Resp: 371950

Ion Ratio Lower Upper

63 100

65 32.4 21.8 40.4

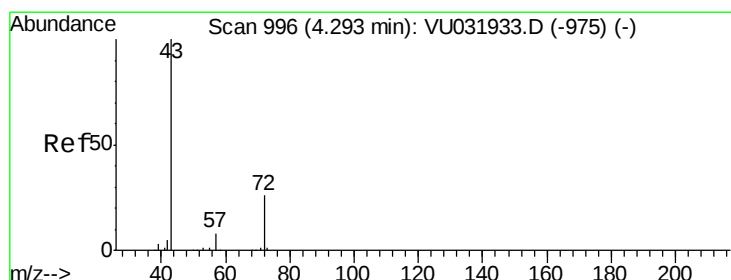
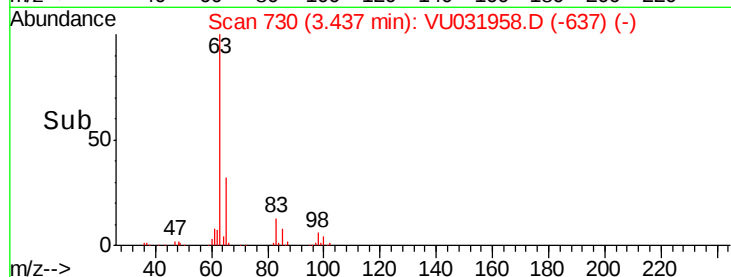
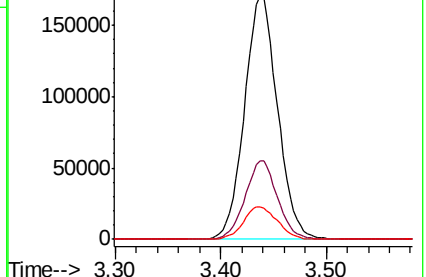
83 13.2 7.9 14.7



Abundance Ion 63.10 (62.80 to 63.80): VU031933.D (-710) (-)

Ion 65.10 (64.80 to 65.80): VU031933.D (-710) (-)

Ion 83.05 (82.75 to 83.75): VU031933.D (-710) (-)



#21

2-Butanone

Concen: 39.703 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.02 min

Lab File: VU031958.D

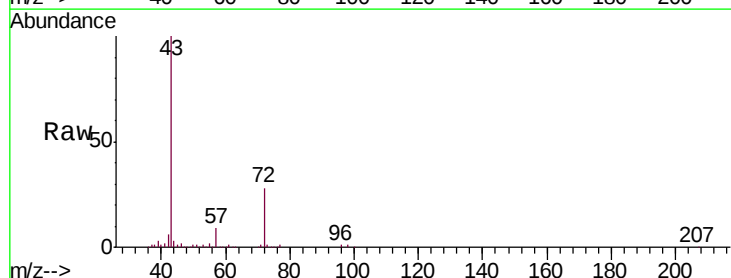
Acq: 13 May 2019 09:25

Tgt Ion: 43 Resp: 562956

Ion Ratio Lower Upper

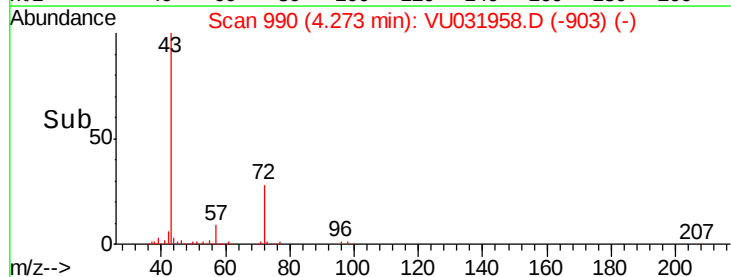
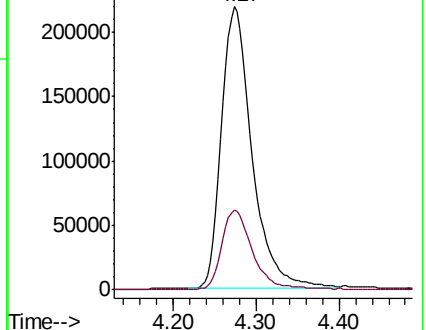
43 100

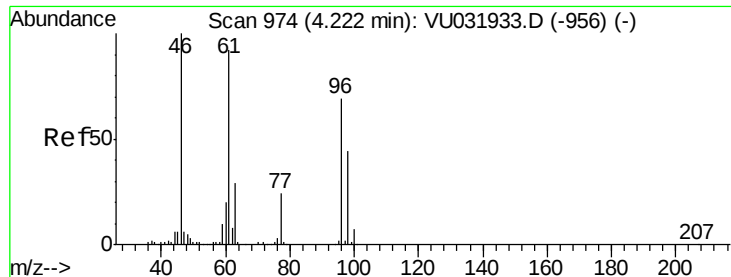
72 27.9 10.4 31.1



Abundance Ion 43.05 (42.75 to 43.75): VU031933.D (-975) (-)

Ion 72.10 (71.80 to 72.80): VU031933.D (-975) (-)



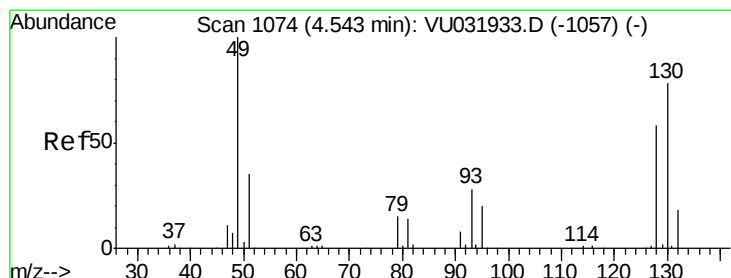
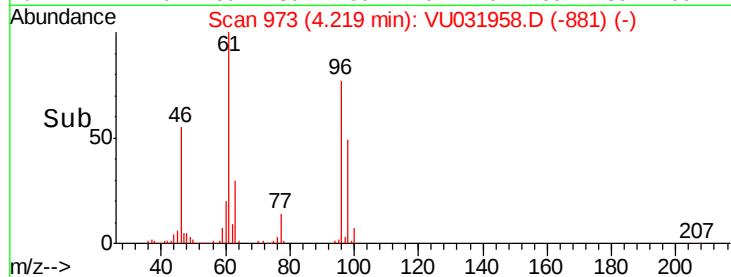
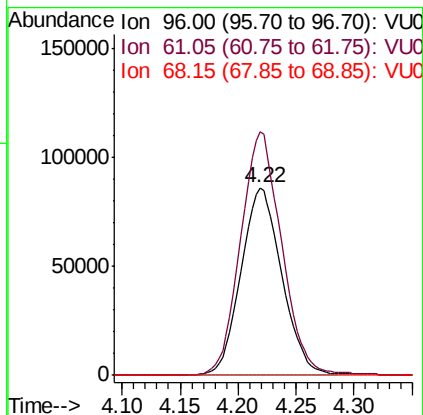
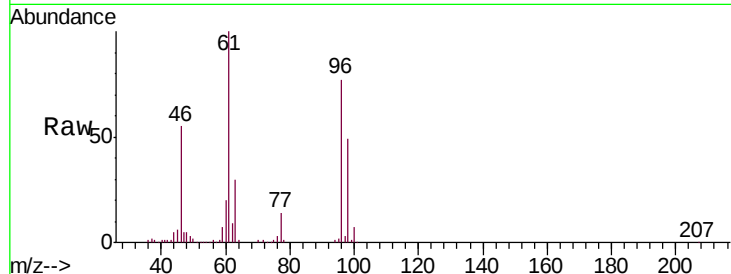


#22

cis-1,2-Dichloroethene
 Concen: 5.132 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00529

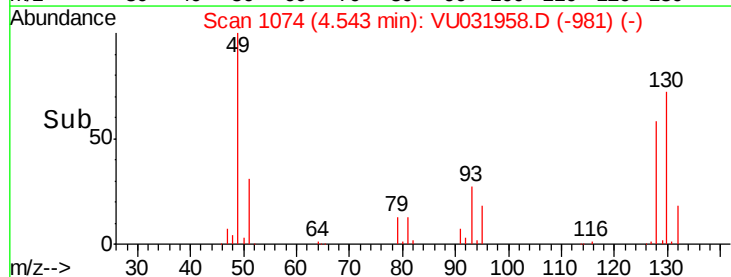
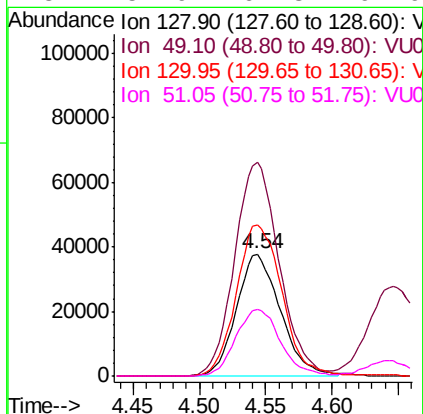
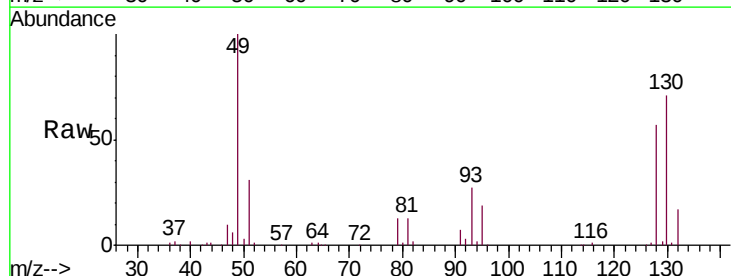
Tgt Ion: 96 Resp: 210846
 Ion Ratio Lower Upper
 96 100
 61 129.6 113.3 210.5
 68 0.0 0.0 0.0

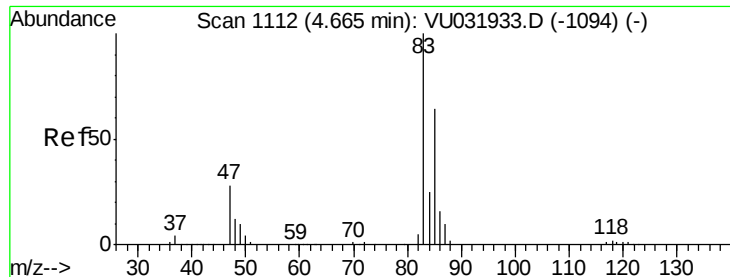


#23

Bromochloromethane
 Concen: 5.277 ug/L
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Tgt Ion: 128 Resp: 87003
 Ion Ratio Lower Upper
 128 100
 49 175.4 168.8 313.4
 130 124.2 93.0 172.8
 51 54.9 61.3 91.9#

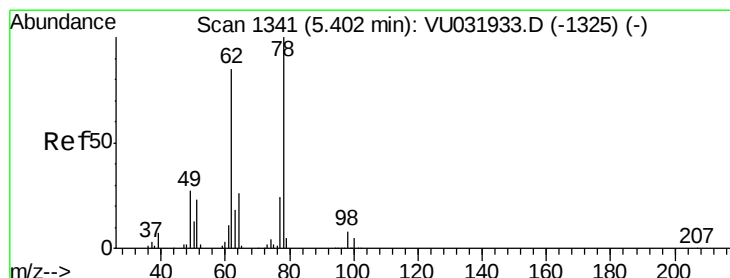
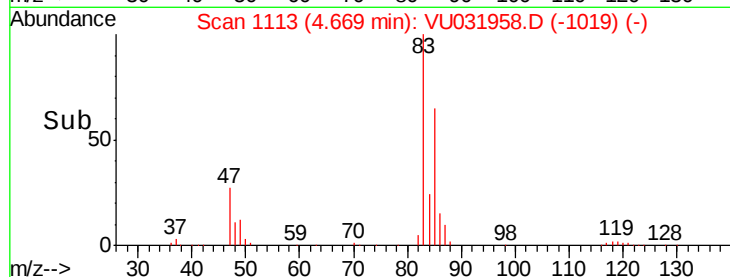
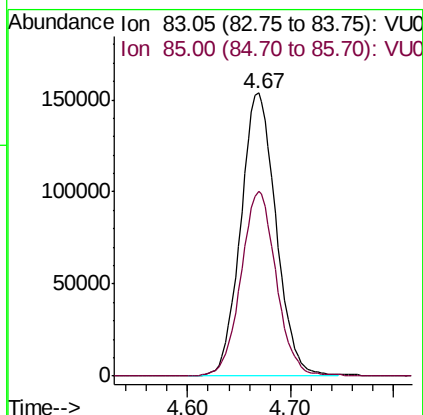
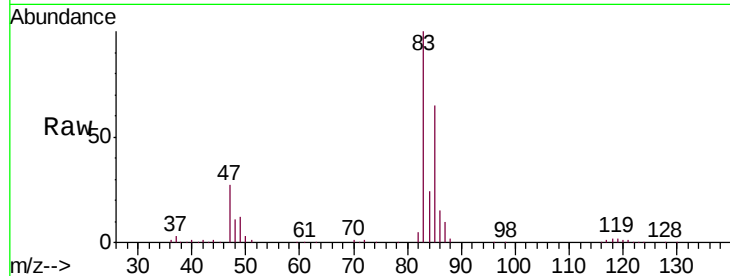




#25
Chloroform
Concen: 4.421 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

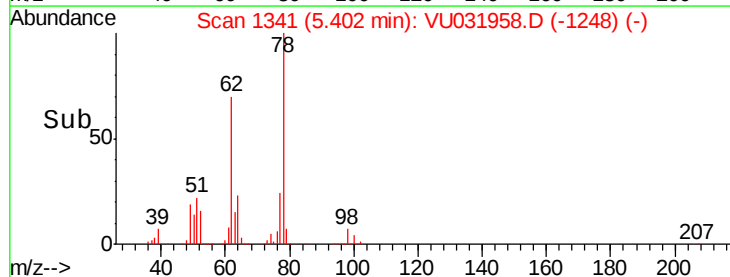
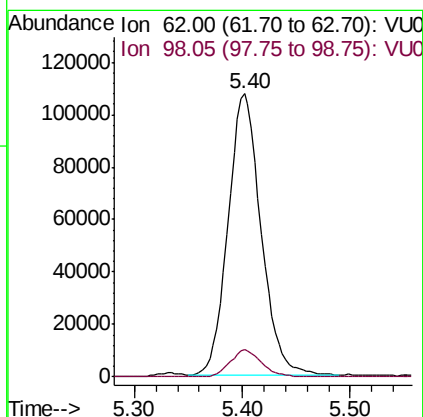
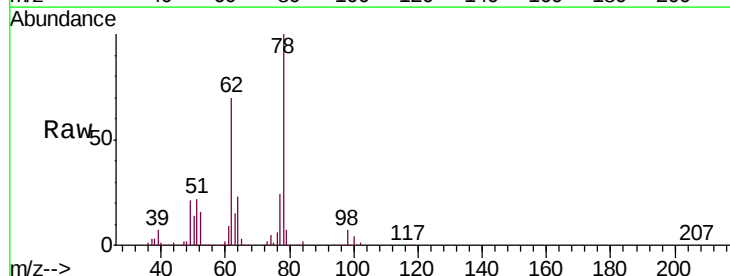
Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

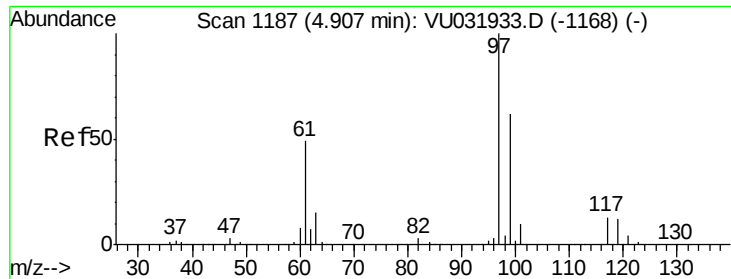
Tgt Ion: 83 Resp: 366043
Ion Ratio Lower Upper
83 100
85 65.5 44.4 82.5



#27
1,2-Dichloroethane
Concen: 4.176 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

Tgt Ion: 62 Resp: 228209
Ion Ratio Lower Upper
62 100
98 9.6 5.4 8.2#

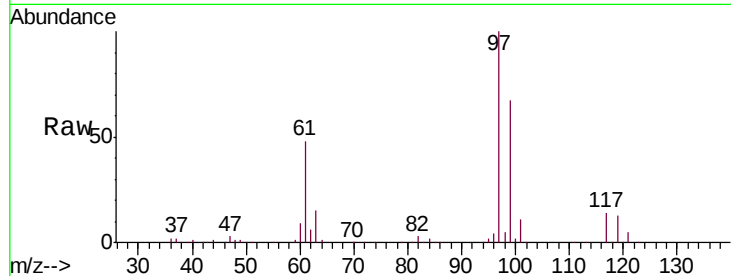




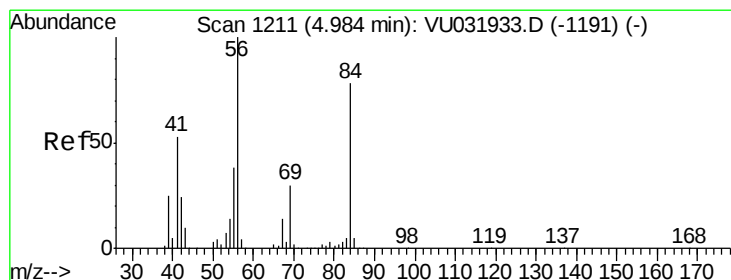
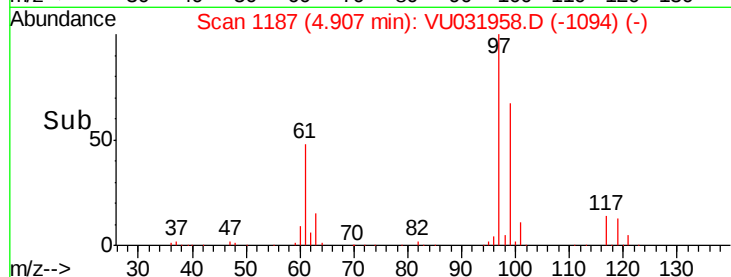
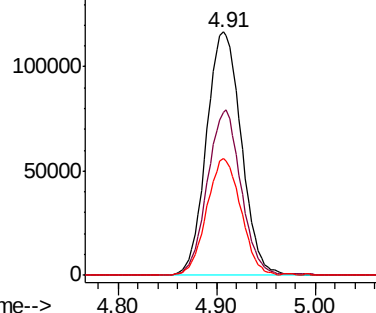
#29
1,1,1-Trichloroethane
Concen: 4.413 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

Tgt Ion: 97 Resp: 286126
Ion Ratio Lower Upper
97 100
99 65.4 50.6 75.8
61 47.2 42.2 63.2

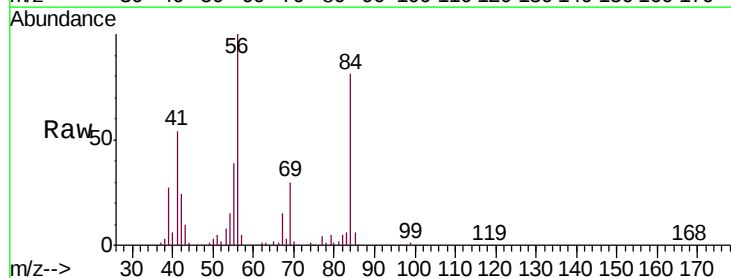


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

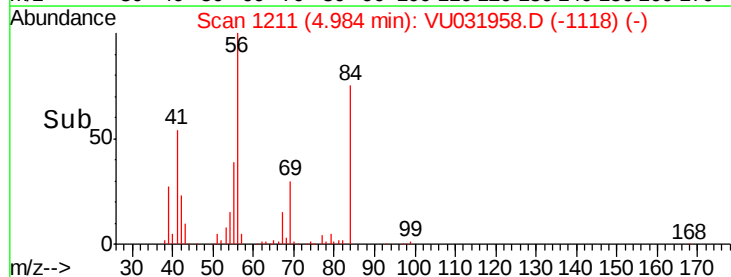
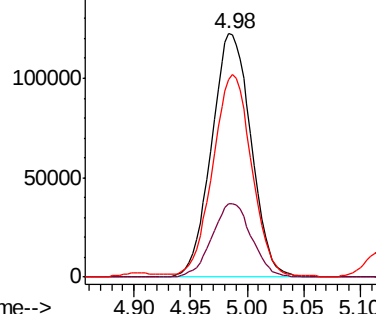


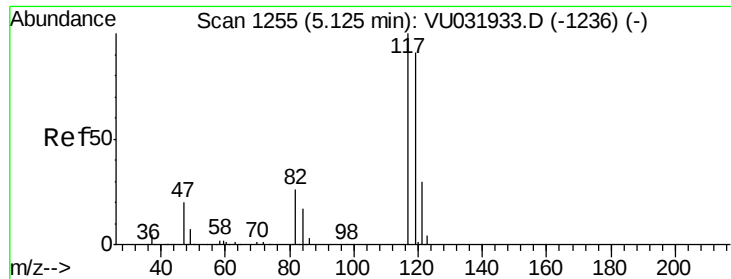
#30
Cyclohexane
Concen: 4.193 ug/L
RT: 4.98 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

Tgt Ion: 56 Resp: 297679
Ion Ratio Lower Upper
56 100
69 30.3 21.8 32.8
84 82.4 56.8 85.2



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: 4.335 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

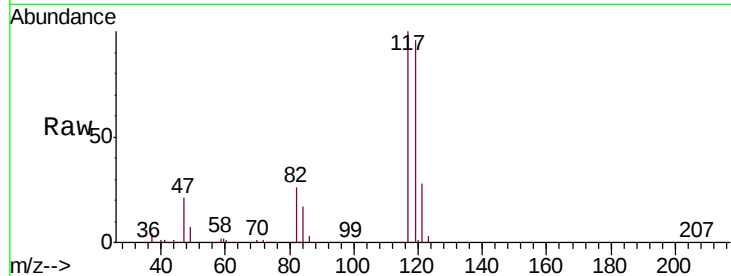
VSTD00529

Tgt Ion:117 Resp: 239340

Ion Ratio Lower Upper

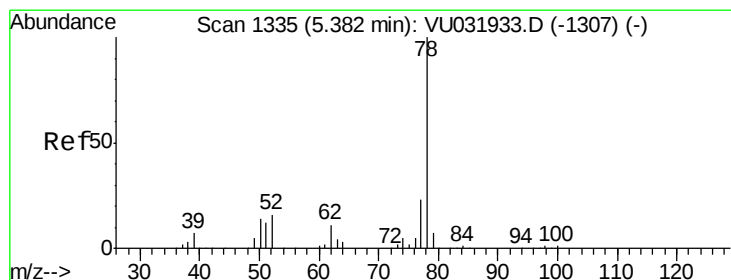
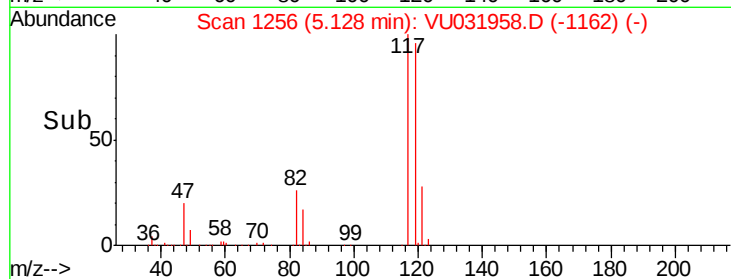
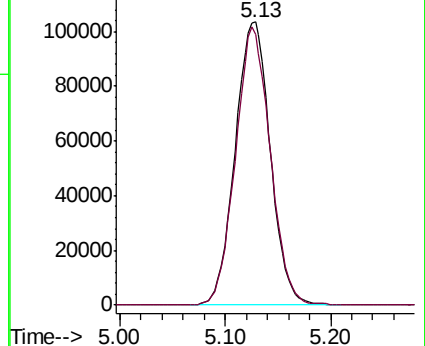
117 100

119 96.6 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.858 ug/L

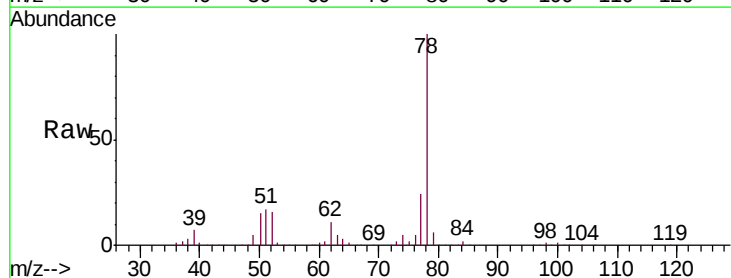
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

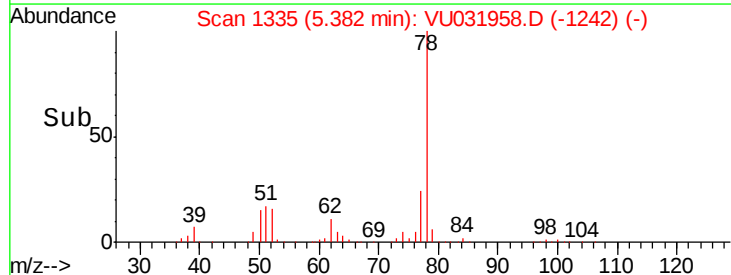
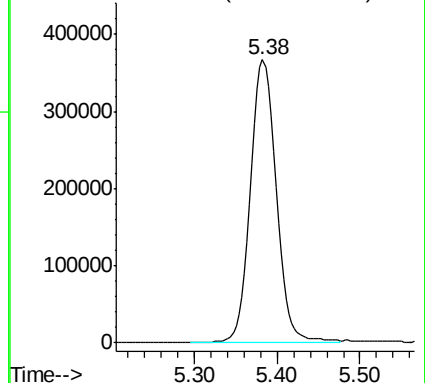
Lab File: VU031958.D

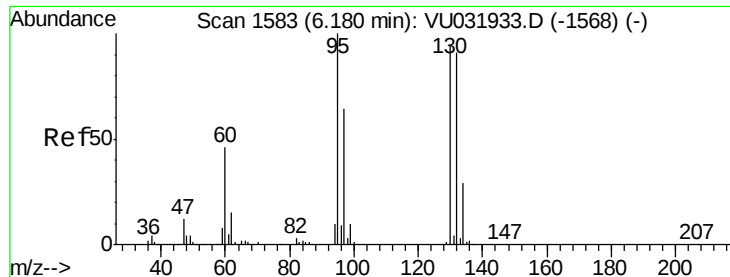
Acq: 13 May 2019 09:25

Tgt Ion: 78 Resp: 801349



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.761 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

Tgt Ion: 95 Resp: 198001

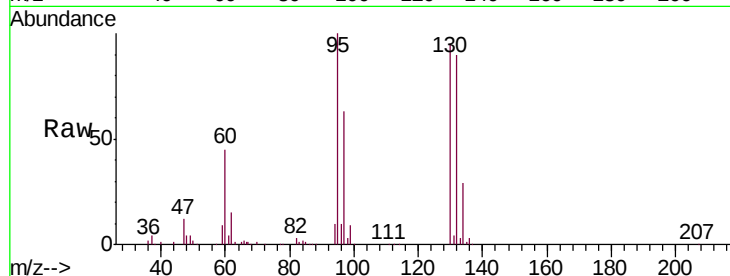
Ion Ratio Lower Upper

95 100

97 63.2 45.8 85.2

132 89.7 56.0 104.0

130 95.0 60.4 112.2

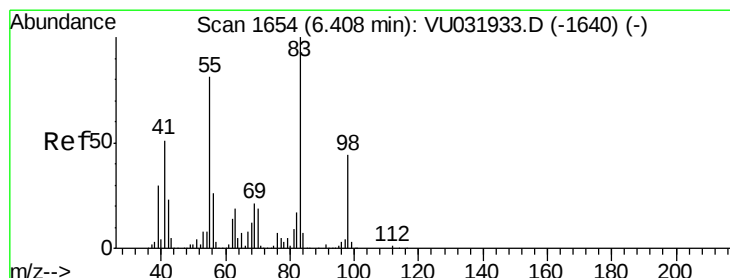
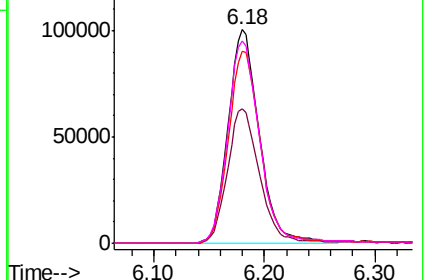
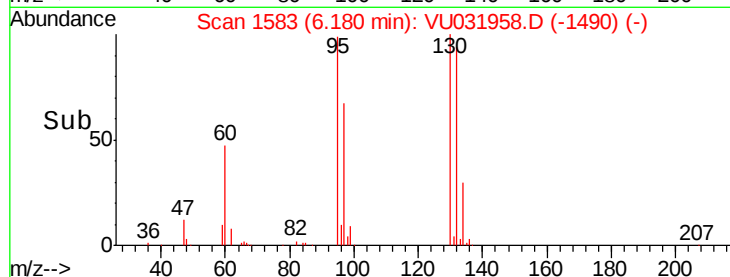


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.942 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

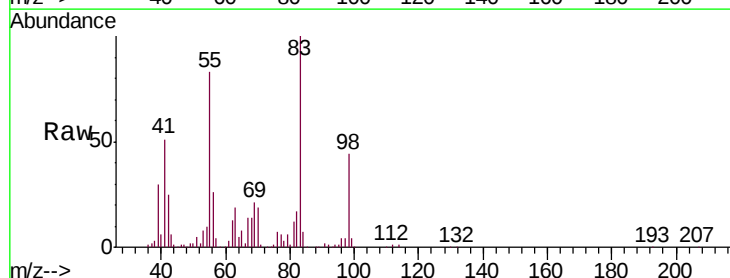
Tgt Ion: 83 Resp: 295184

Ion Ratio Lower Upper

83 100

55 85.1 79.2 118.8

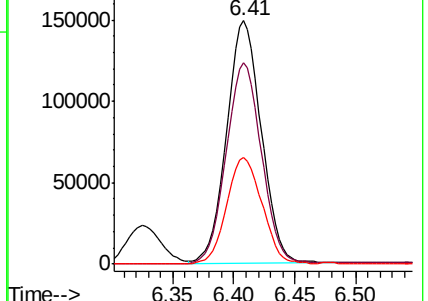
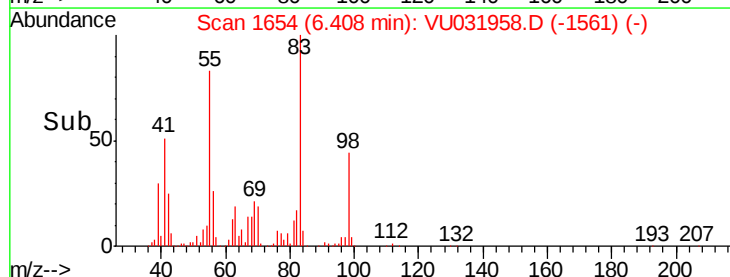
98 45.0 34.0 51.0

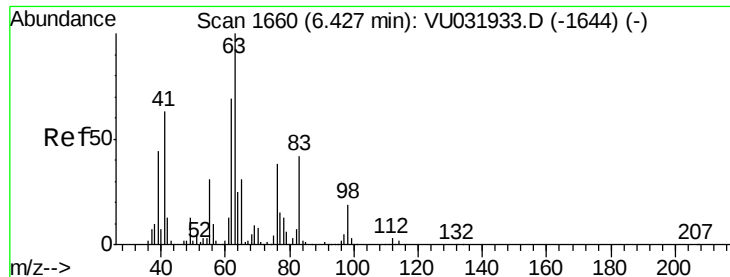


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.558 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

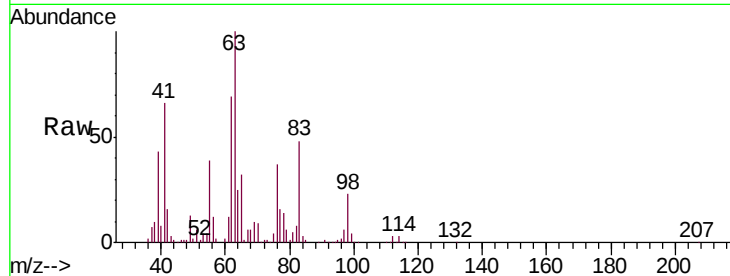
VSTD00529

Tgt Ion: 63 Resp: 215171

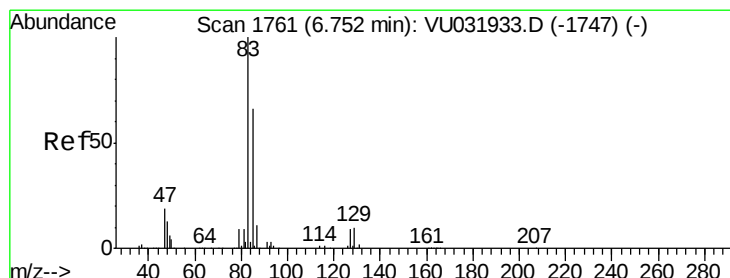
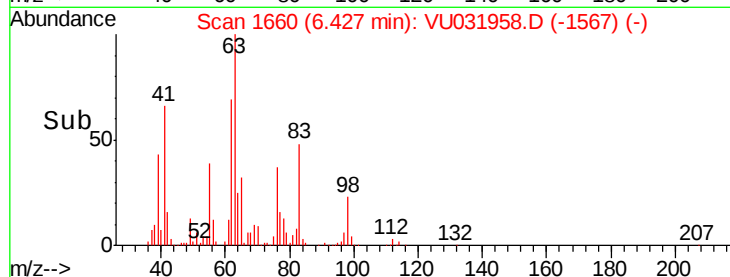
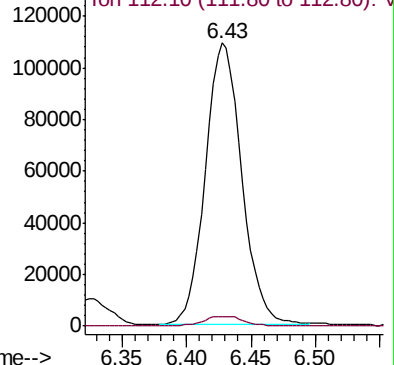
Ion Ratio Lower Upper

63 100

112 3.9 2.5 3.7#



Abundance Ion 63.10 (62.80 to 63.80): VU031933.D (-1644) (-)



#38

Bromodichloromethane

Concen: 4.634 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

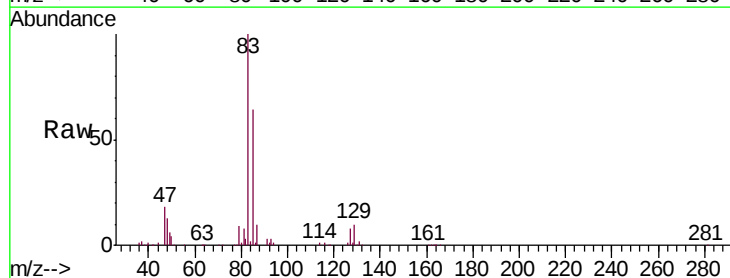
Tgt Ion: 83 Resp: 260537

Ion Ratio Lower Upper

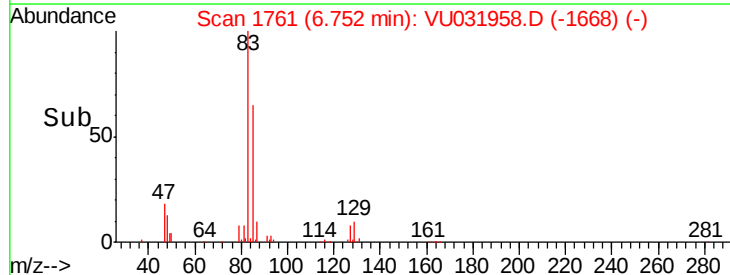
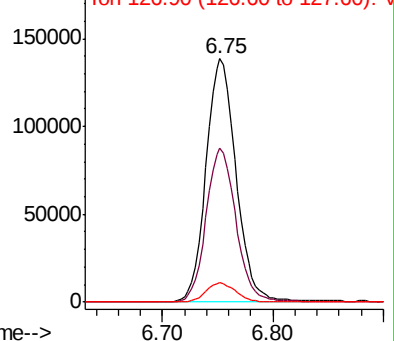
83 100

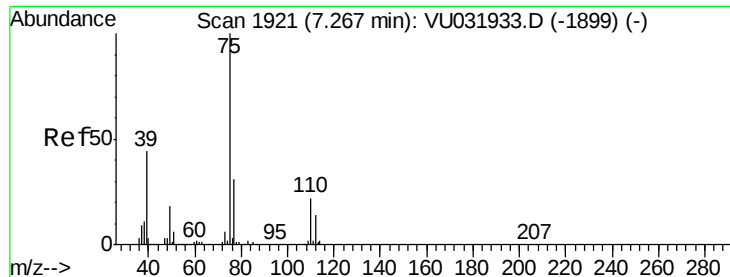
85 63.5 41.3 76.7

127 7.8 5.8 8.6



Abundance Ion 82.95 (82.65 to 83.65): VU031933.D (-1747) (-)

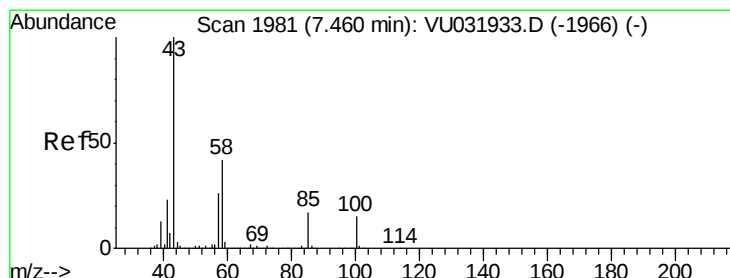
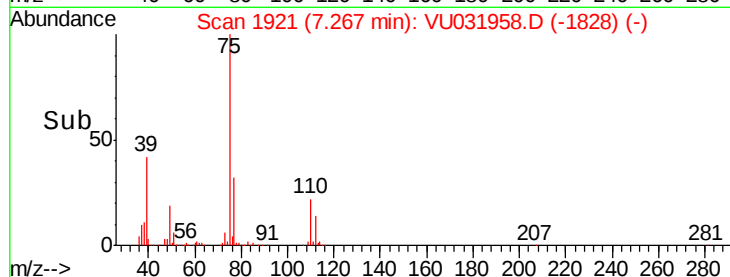
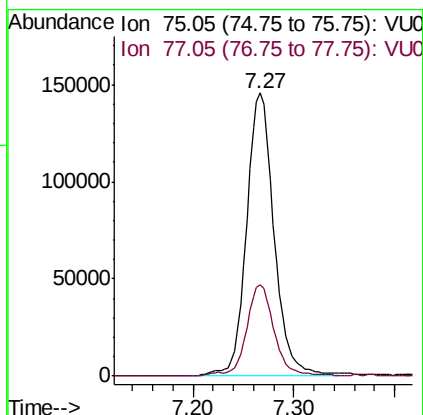
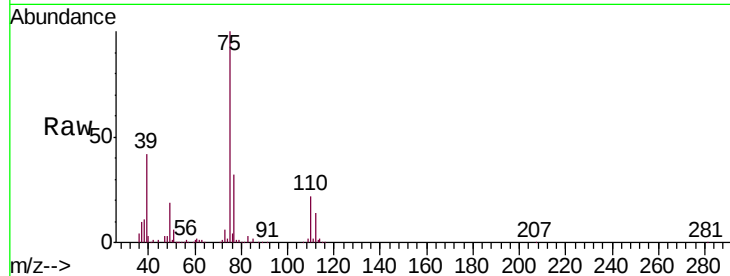




#39
 cis-1,3-Dichloropropene
 Concen: 4.644 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

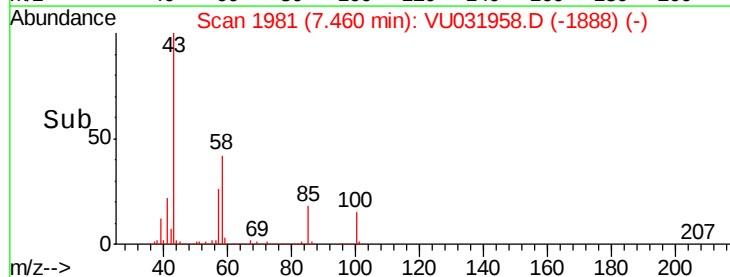
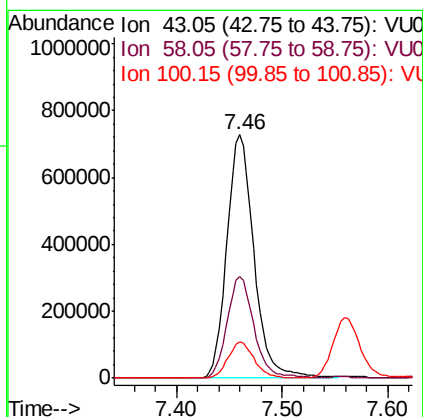
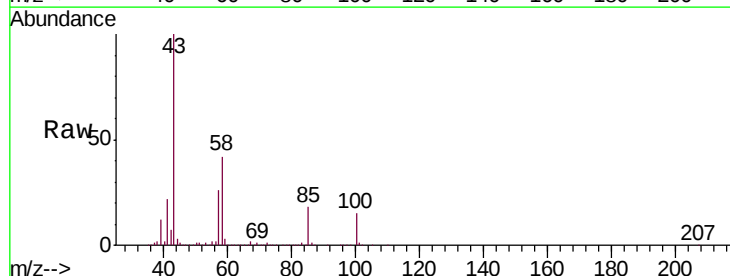
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00529

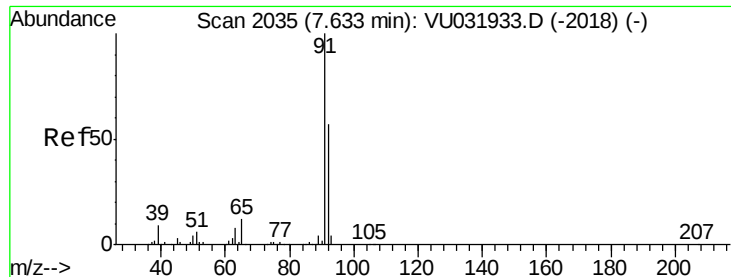
Tgt Ion: 75 Resp: 274695
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 40.820 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Tgt Ion: 43 Resp: 1296787
 Ion Ratio Lower Upper
 43 100
 58 41.3 28.0 42.0
 100 14.5 8.2 12.4#





#42

Toluene

Concen: 5.205 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

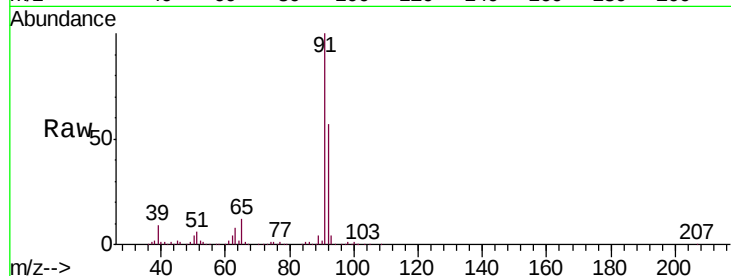
VSTD00529

Tgt Ion: 91 Resp: 847642

Ion Ratio Lower Upper

91 100

92 57.4 38.1 70.9



Abundance Ion 91.15 (90.85 to 91.85): VU031933.D (-2018) (-)

Ion 92.15 (91.85 to 92.85): VU031933.D (-2018) (-)

7.63

500000

400000

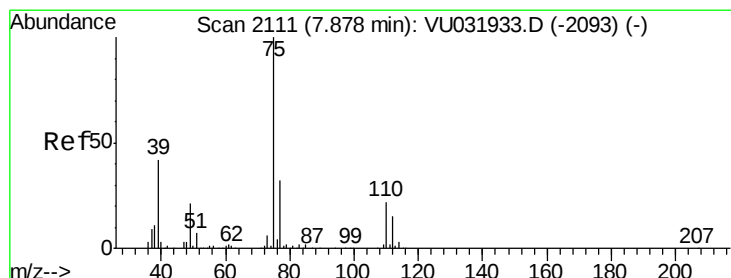
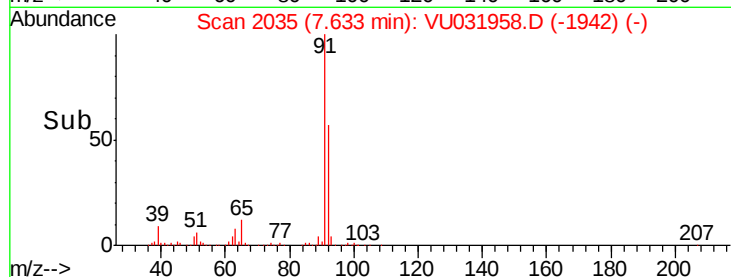
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#44

trans-1,3-Dichloropropene

Concen: 4.794 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031958.D

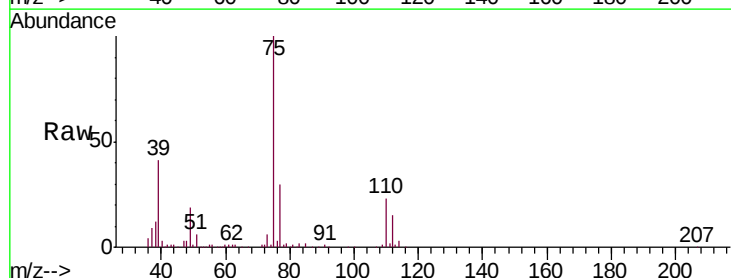
Acq: 13 May 2019 09:25

Tgt Ion: 75 Resp: 224591

Ion Ratio Lower Upper

75 100

77 30.5 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU031933.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU031933.D (-2093) (-)

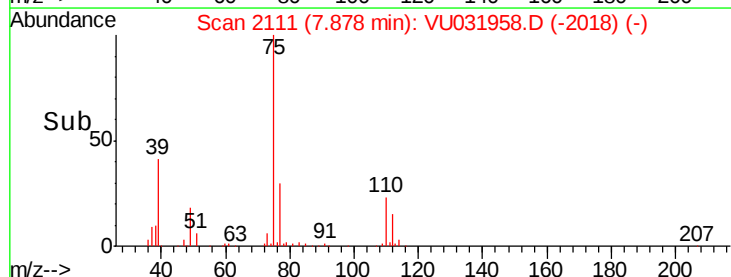
150000

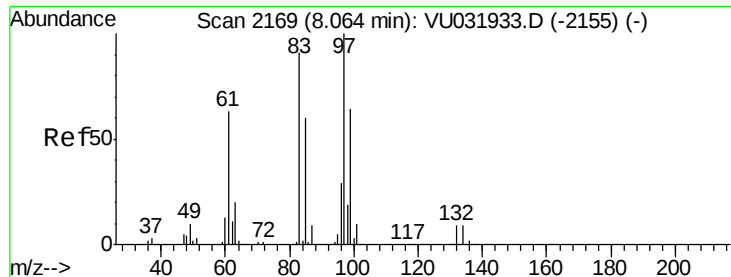
100000

50000

0

Time--> 7.80 7.90 8.00

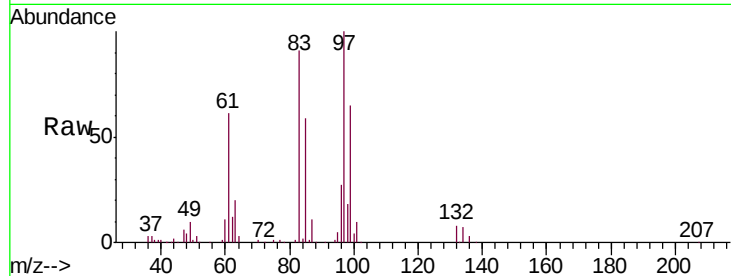




#45
 1,1,2-Trichloroethane
 Concen: 5.265 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00529

Tgt Ion:	97	Resp:	147248
Ion	Ratio	Lower	Upper
97	100		
99	65.3	45.8	85.0
83	90.6	64.5	119.7
85	59.0	41.6	77.3



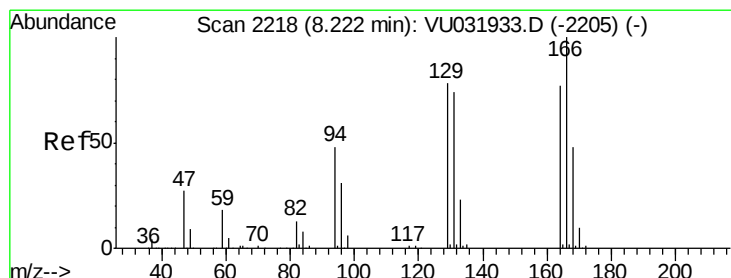
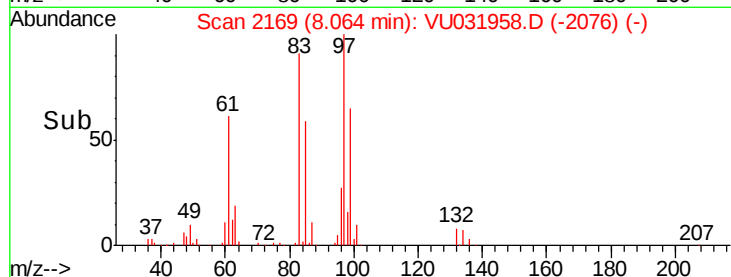
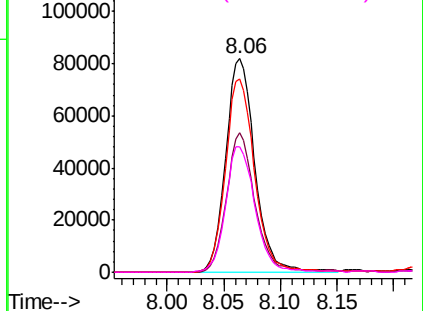
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

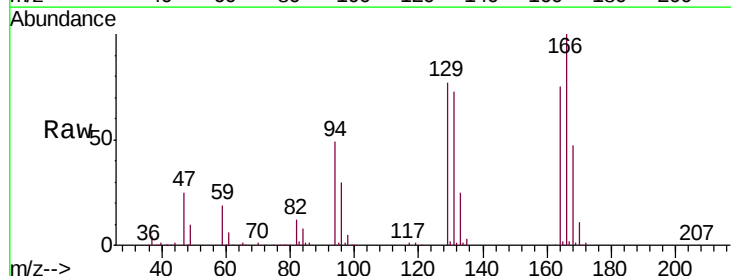
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.206 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Tgt Ion:	164	Resp:	140766
Ion	Ratio	Lower	Upper
164	100		
129	102.2	70.3	130.5
131	97.0	65.4	121.4
166	132.7	86.0	159.8



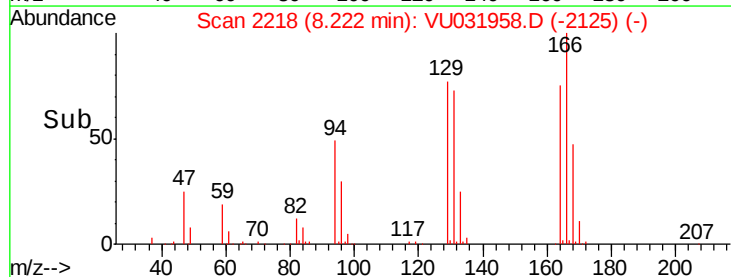
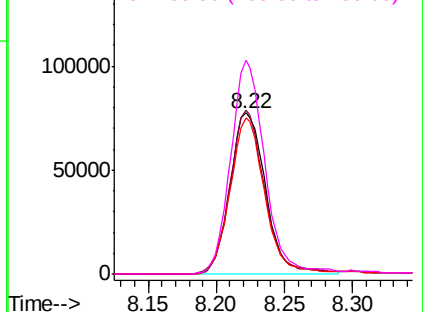
Abundance

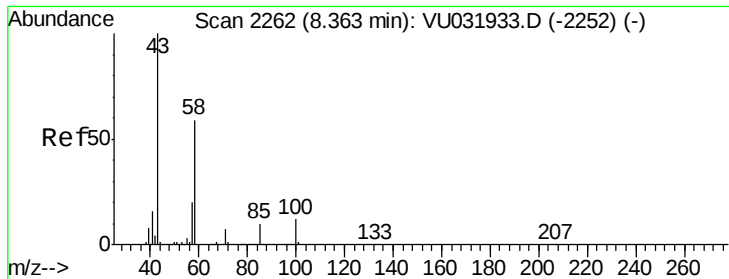
Ion 163.90 (163.60 to 164.60): V

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

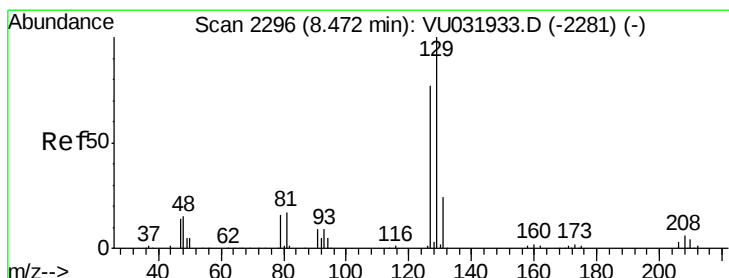
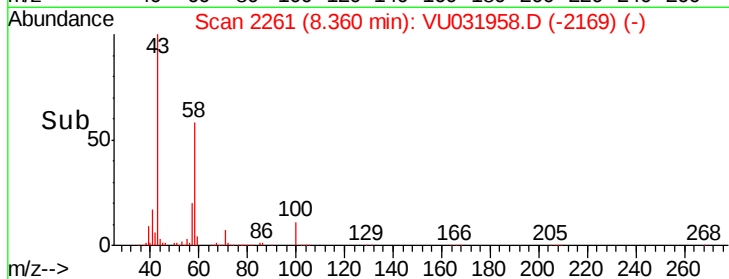
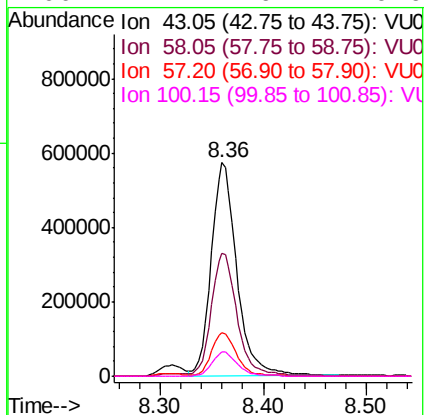
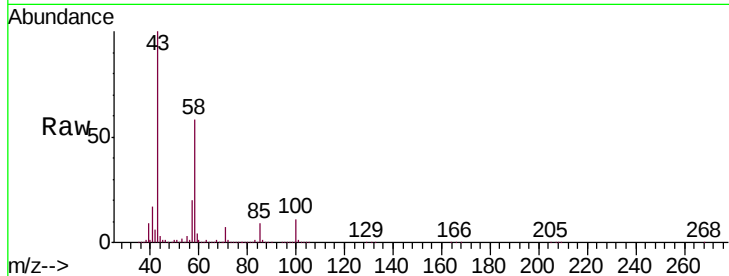




#48
2-Hexanone
Concen: 43.478 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

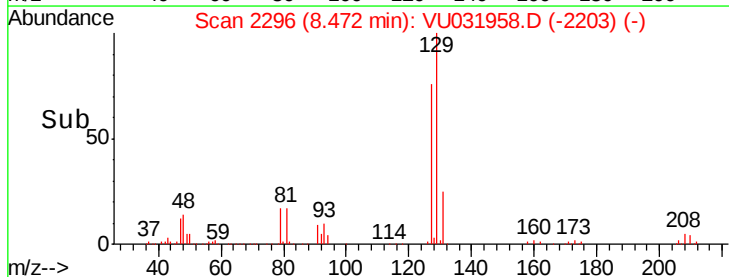
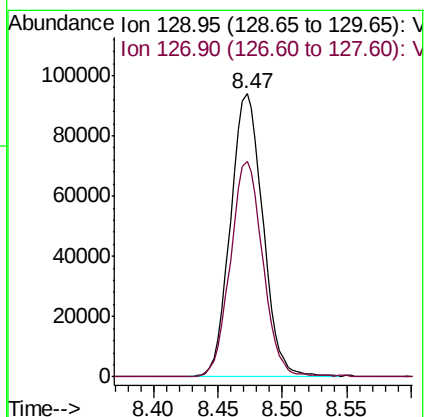
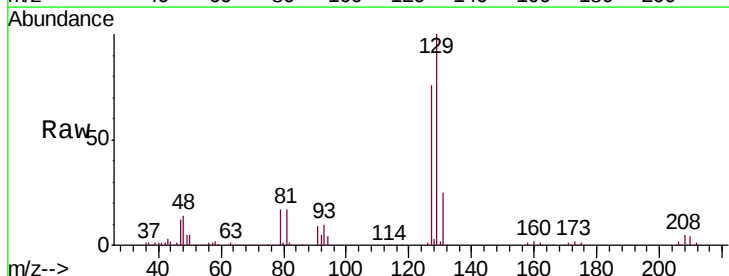
Instrument :
MSVOA_U
ClientSampleId :
VSTD00529

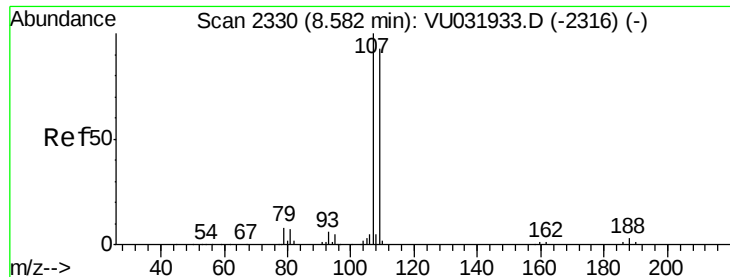
Tgt Ion: 43 Resp: 981679
Ion Ratio Lower Upper
43 100
58 58.0 40.2 60.2
57 20.1 13.8 20.6
100 11.4 6.4 9.6#



#49
Dibromochloromethane
Concen: 5.013 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031958.D
Acq: 13 May 2019 09:25

Tgt Ion: 129 Resp: 163052
Ion Ratio Lower Upper
129 100
127 75.9 54.7 101.7





#50

1,2-Dibromoethane

Concen: 5.216 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

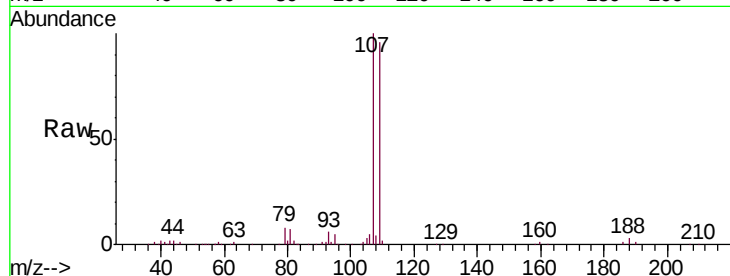
Tgt Ion:107 Resp: 132741

Ion Ratio Lower Upper

107 100

109 96.0 62.6 116.3

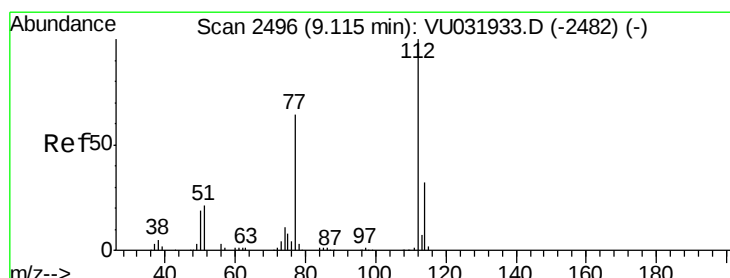
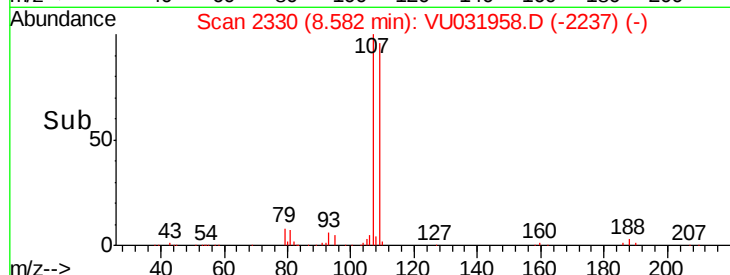
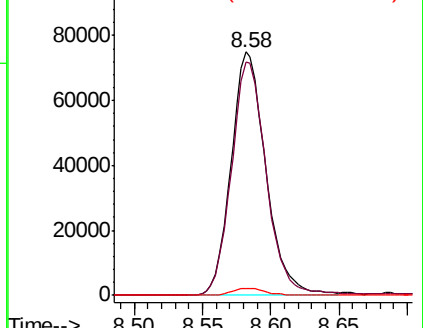
188 2.9 2.1 3.1



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: 5.184 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

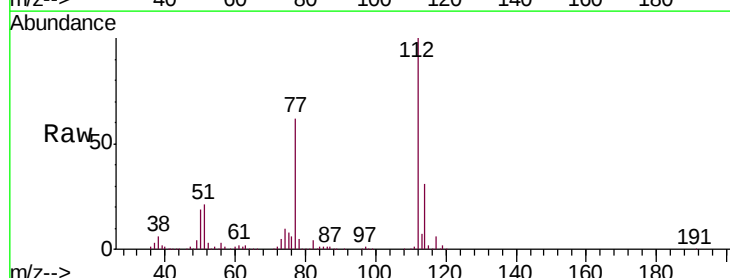
Tgt Ion:112 Resp: 501894

Ion Ratio Lower Upper

112 100

114 31.2 22.5 41.7

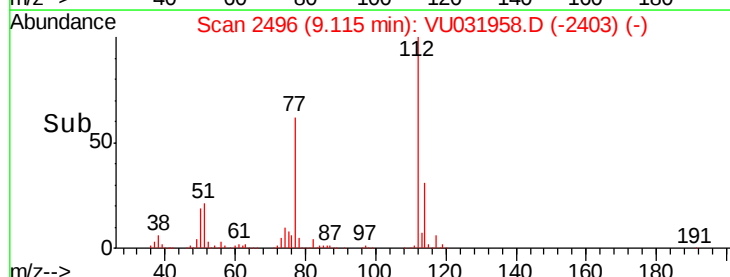
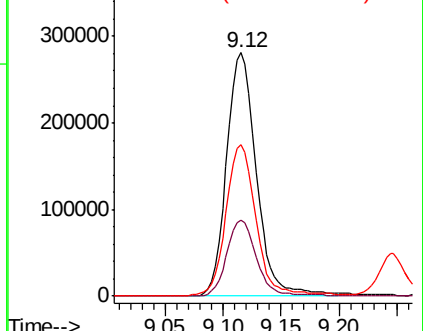
77 62.2 56.9 85.3

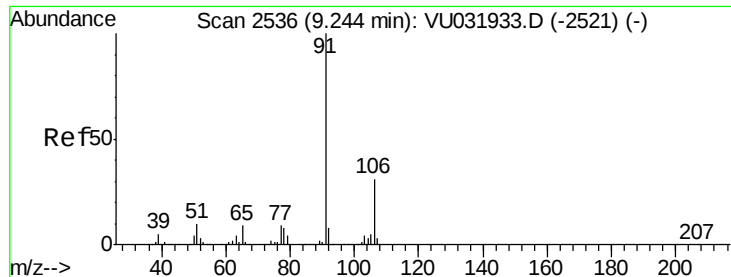


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.018 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

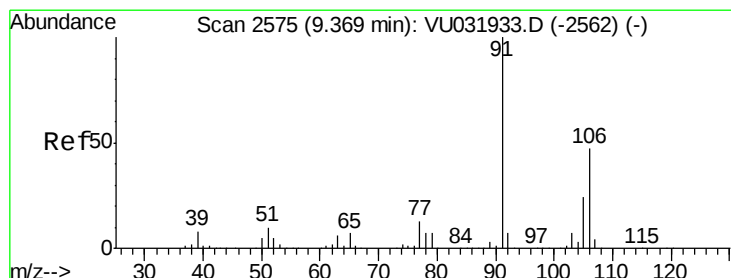
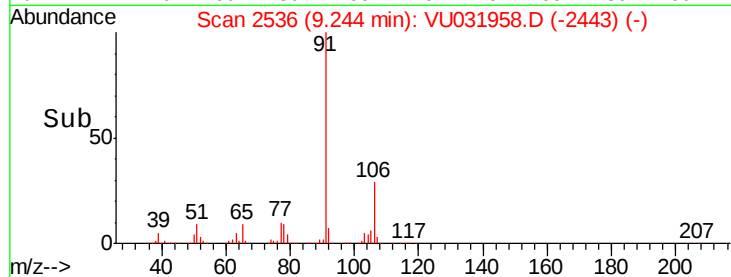
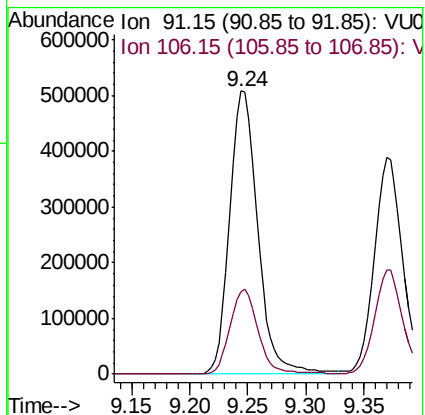
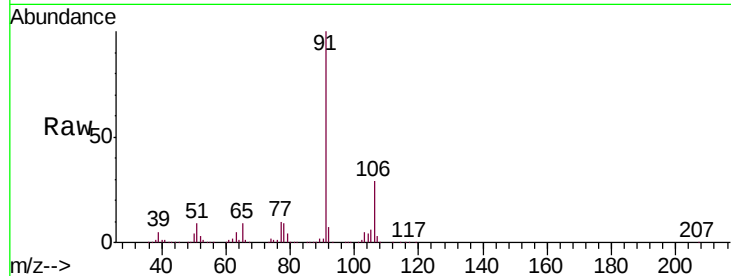
VSTD00529

Tgt Ion: 91 Resp: 852597

Ion Ratio Lower Upper

91 100

106 29.2 20.0 37.2



#53

m,p-Xylene

Concen: 5.269 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031958.D

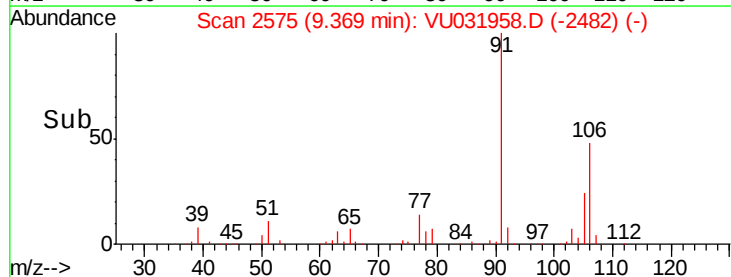
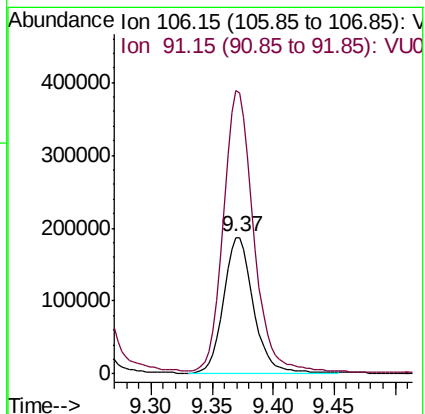
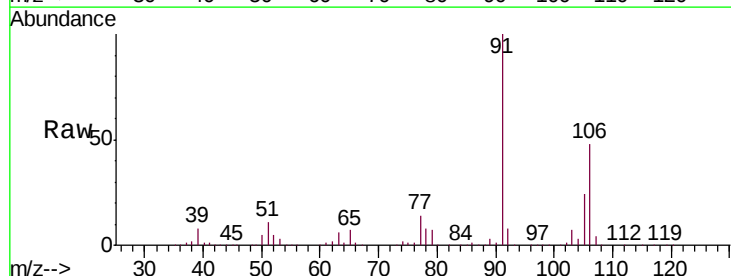
Acq: 13 May 2019 09:25

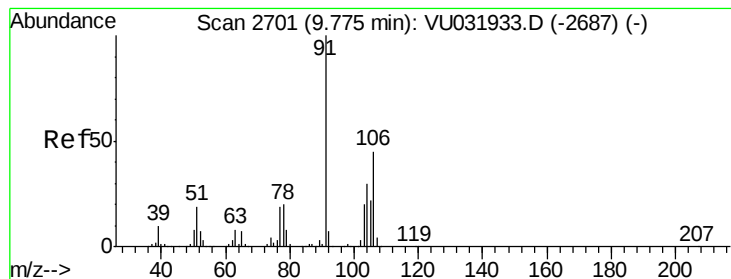
Tgt Ion: 106 Resp: 318661

Ion Ratio Lower Upper

106 100

91 207.0 150.3 279.1





#54

o-Xylene

Concen: 5.438 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

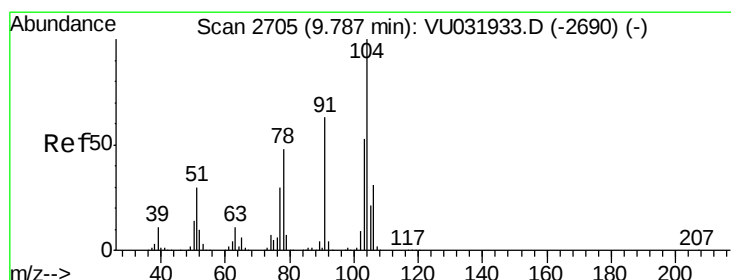
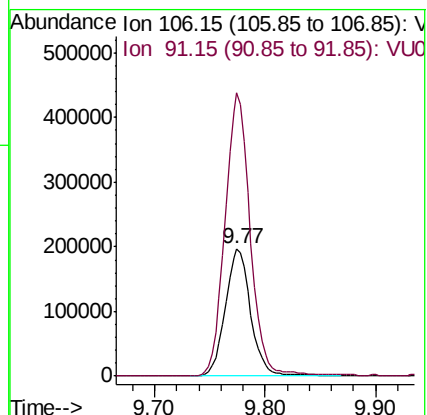
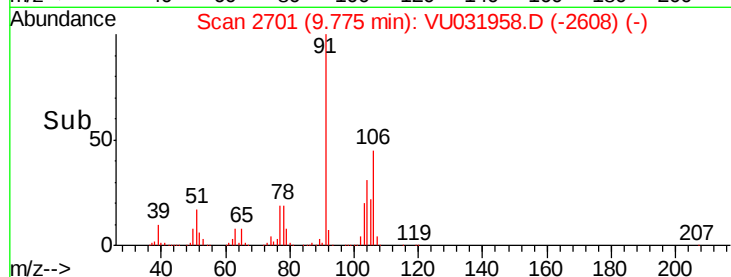
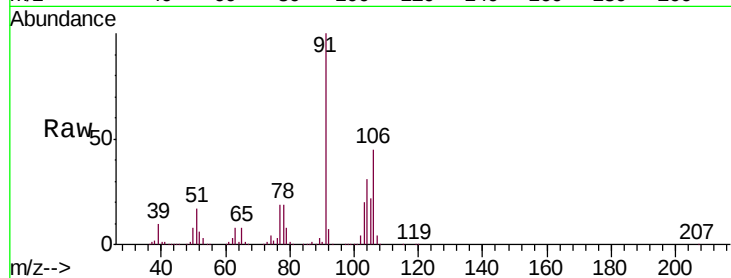
VSTD00529

Tgt Ion:106 Resp: 314519

Ion Ratio Lower Upper

106 100

91 222.4 161.8 300.6



#55

Styrene

Concen: 5.549 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031958.D

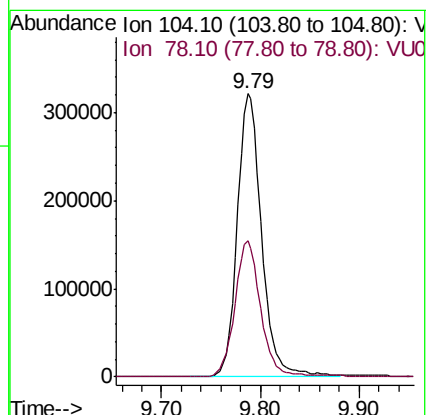
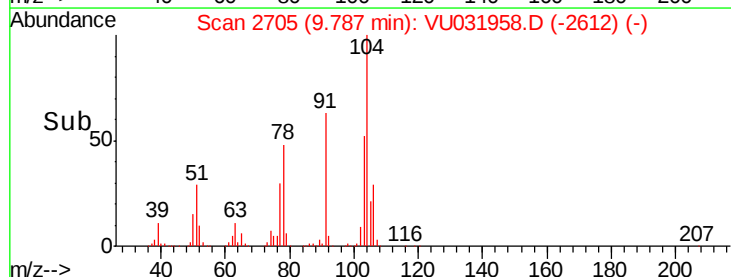
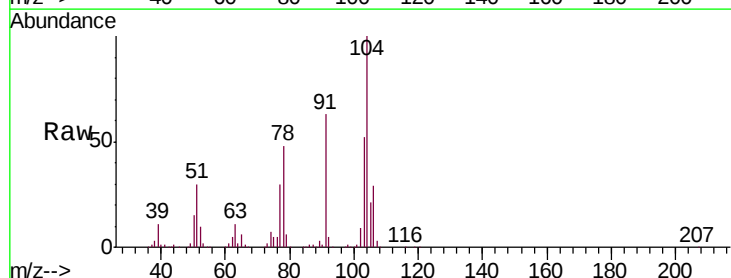
Acq: 13 May 2019 09:25

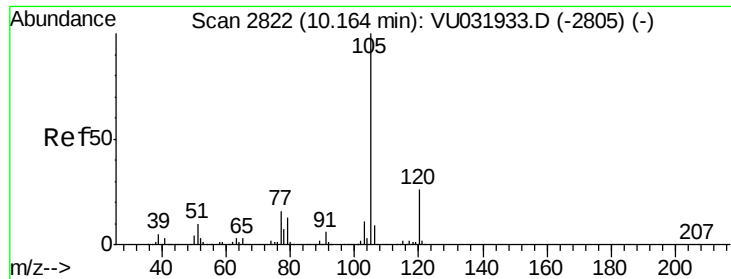
Tgt Ion:104 Resp: 550712

Ion Ratio Lower Upper

104 100

78 48.0 37.2 69.0





#56

Isopropylbenzene

Concen: 5.210 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

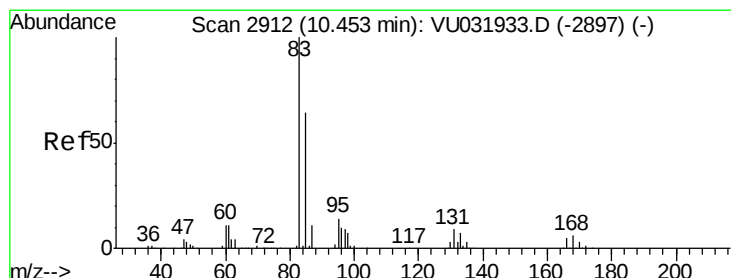
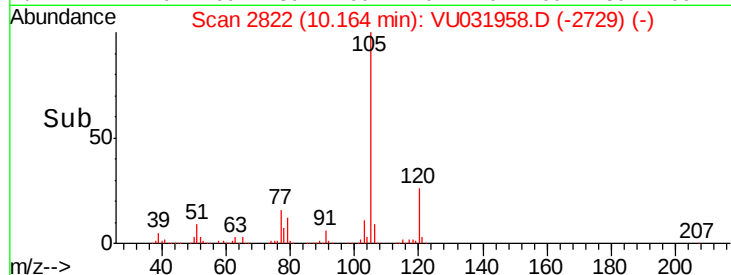
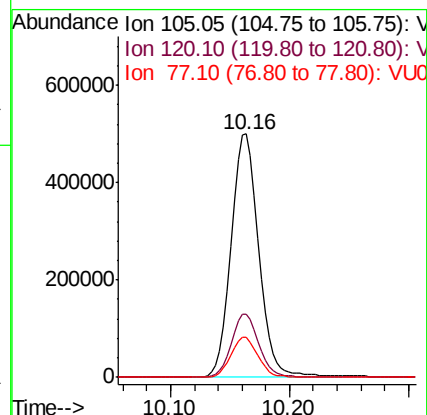
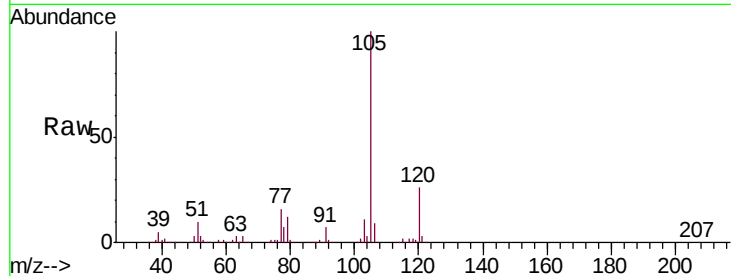
Tgt Ion: 105 Resp: 806673

Ion Ratio Lower Upper

105 100

120 25.8 20.2 30.4

77 16.5 14.8 22.2



#58

1,1,2,2-Tetrachloroethane

Concen: 4.982 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

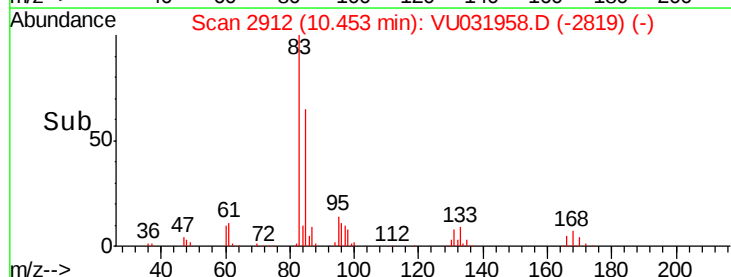
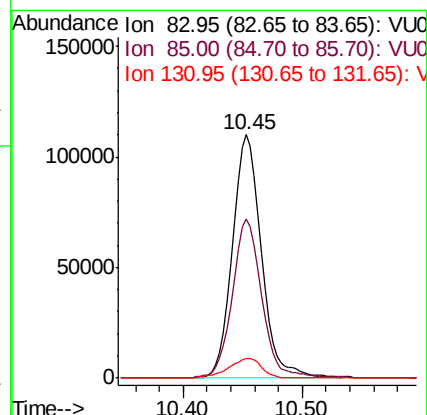
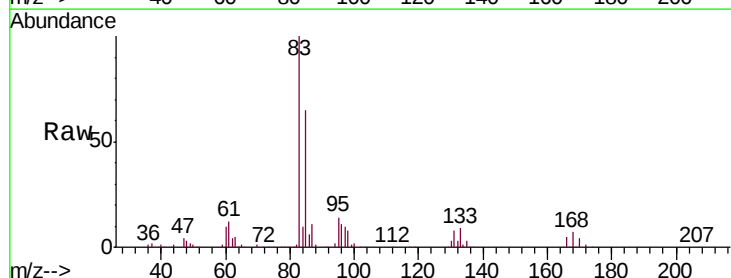
Tgt Ion: 83 Resp: 186121

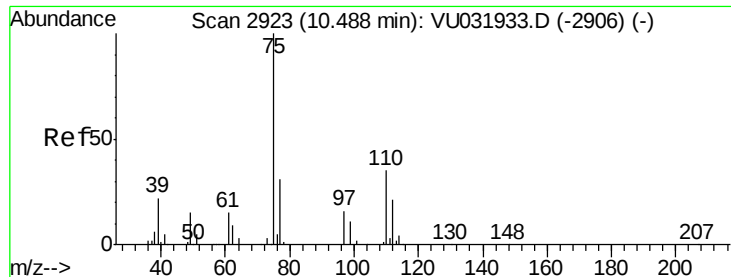
Ion Ratio Lower Upper

83 100

85 65.3 44.3 82.3

131 8.0 6.0 9.0





#59

1,2,3-Trichloropropane

Concen: 4.899 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

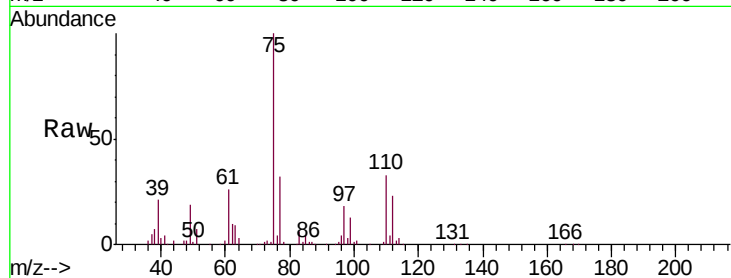
VSTD00529

Tgt Ion: 75 Resp: 136885

Ion Ratio Lower Upper

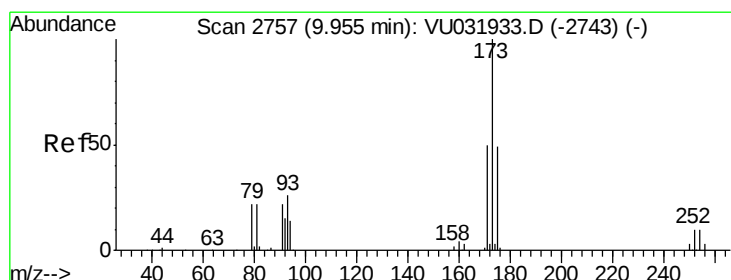
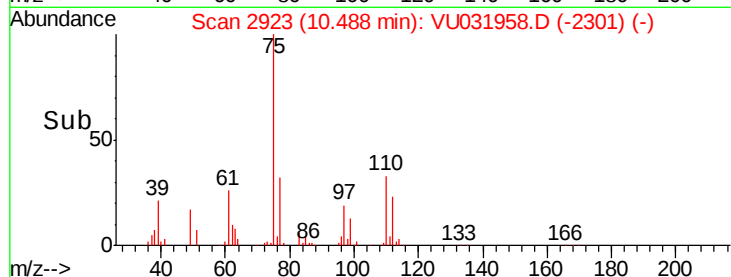
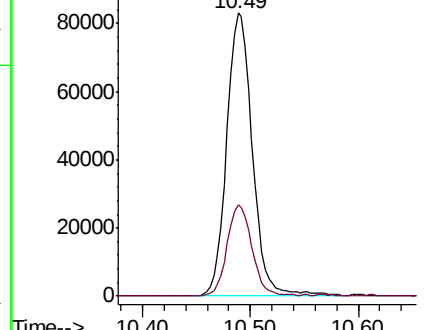
75 100

77 31.4 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VU031933.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU031933.D (-2906) (-)



#61

Bromoform

Concen: 5.293 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

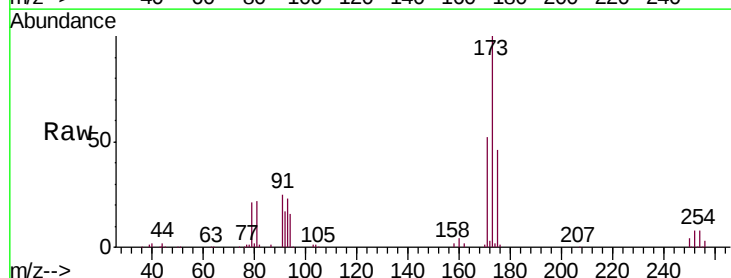
Tgt Ion: 173 Resp: 88038

Ion Ratio Lower Upper

173 100

175 45.8 37.2 55.8

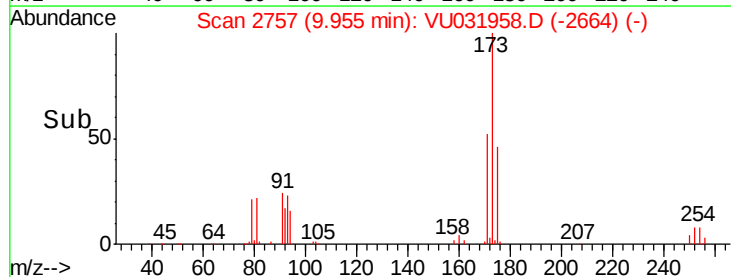
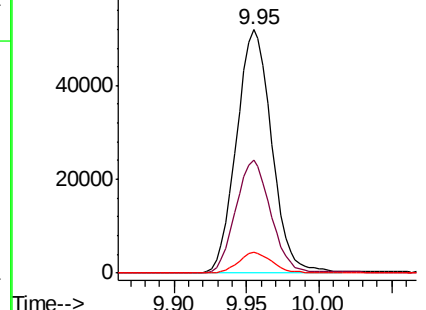
254 8.0 5.8 8.8

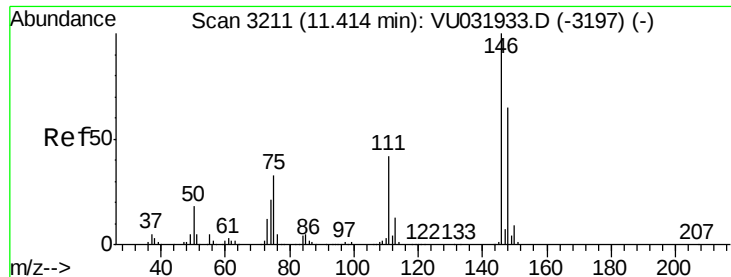


Abundance Ion 172.90 (172.60 to 173.60): VU031933.D (-2743) (-)

Ion 174.90 (174.60 to 175.60): VU031933.D (-2743) (-)

Ion 253.75 (253.45 to 254.45): VU031933.D (-2743) (-)





#62

1,3-Dichlorobenzene

Concen: 5.254 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

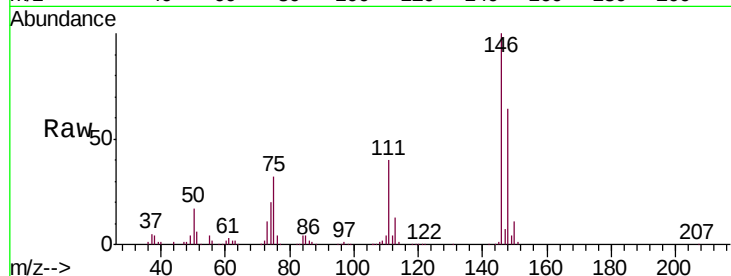
Tgt Ion:146 Resp: 346804

Ion Ratio Lower Upper

146 100

111 40.4 29.4 54.6

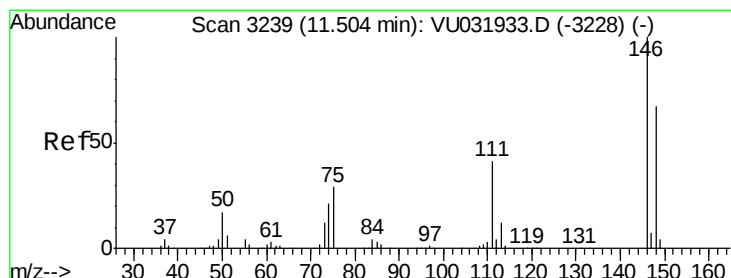
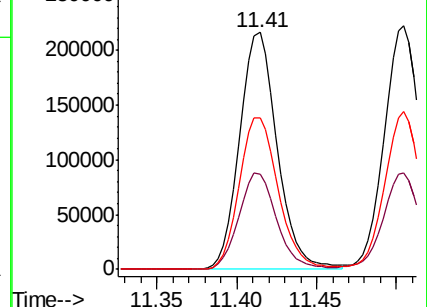
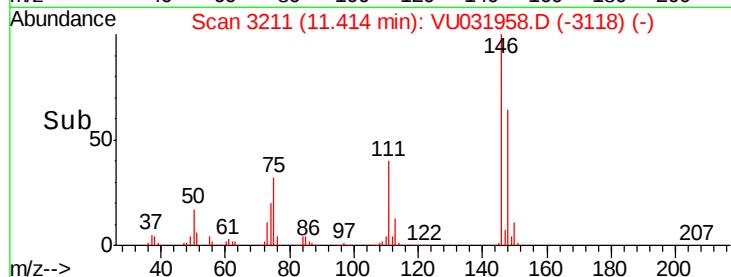
148 64.1 44.0 81.6



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: 5.414 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

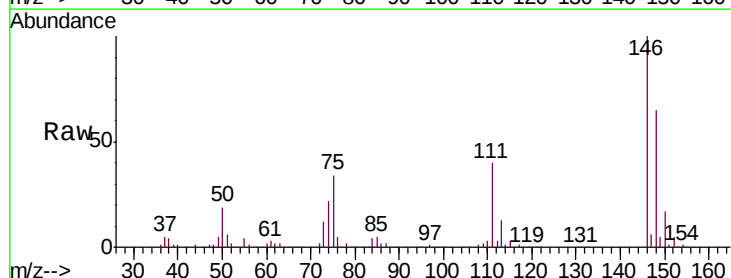
Tgt Ion:146 Resp: 362520

Ion Ratio Lower Upper

146 100

111 39.7 29.5 54.7

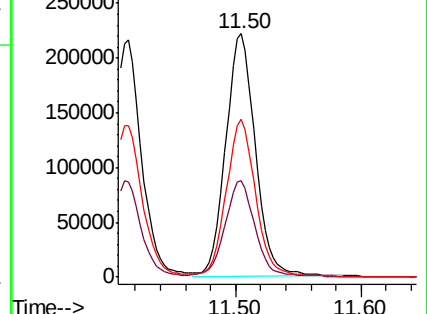
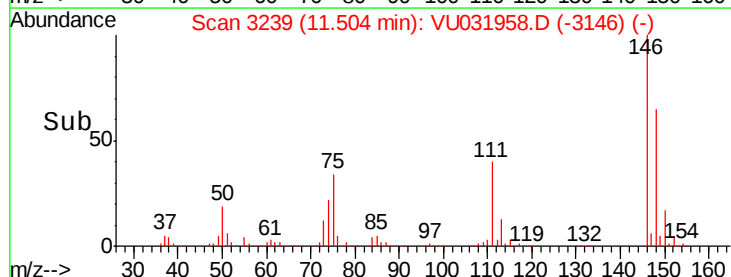
148 64.8 44.8 83.2

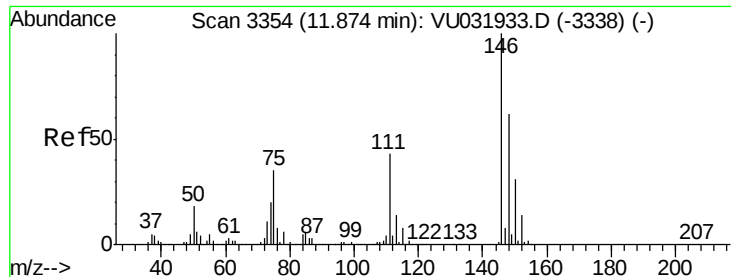


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

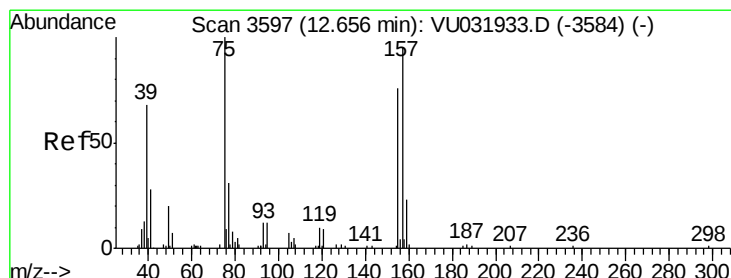
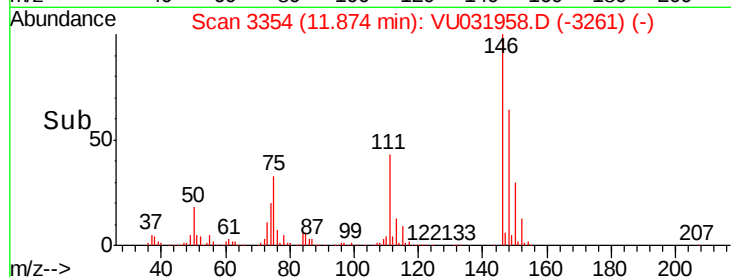
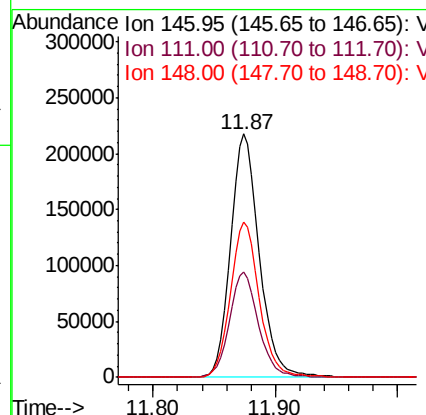
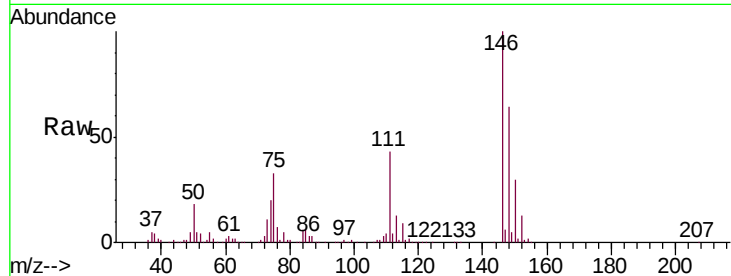




#65
 1,2-Dichlorobenzene
 Concen: 5.548 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

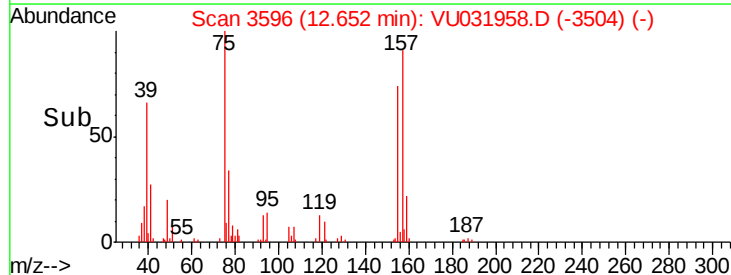
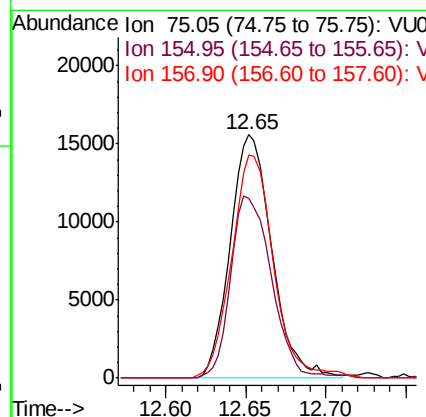
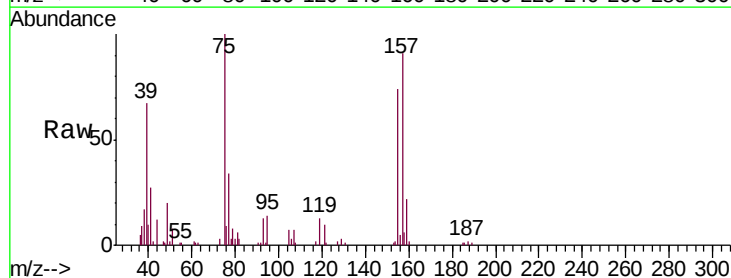
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00529

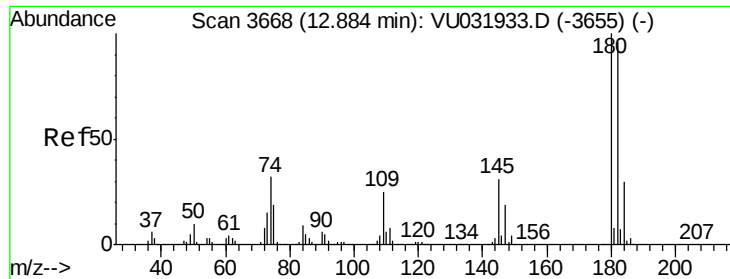
Tgt Ion: 146 Resp: 357317
 Ion Ratio Lower Upper
 146 100
 111 43.1 37.0 55.4
 148 63.6 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.563 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Tgt Ion: 75 Resp: 27628
 Ion Ratio Lower Upper
 75 100
 155 74.0 42.2 63.2#
 157 91.5 54.9 82.3#

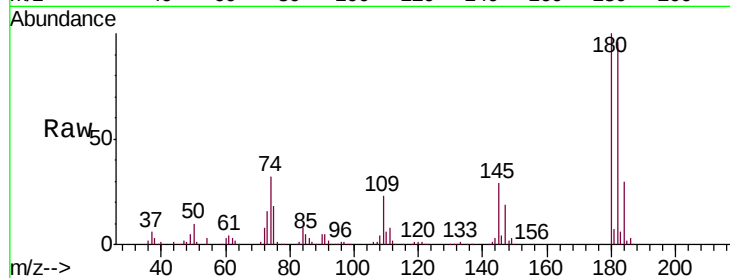




#67
 1,3,5-Trichlorobenzene
 Concen: 5.431 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00529

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.0	115.4
184	30.3	24.1	36.1
145	30.4	24.5	36.7



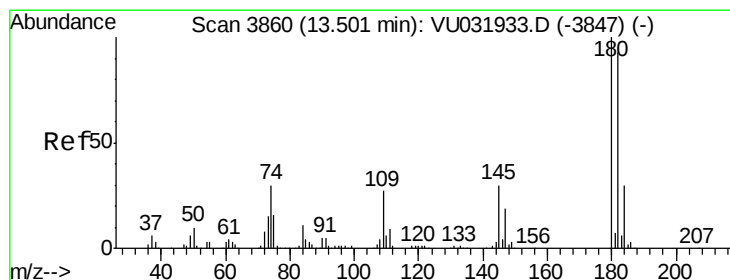
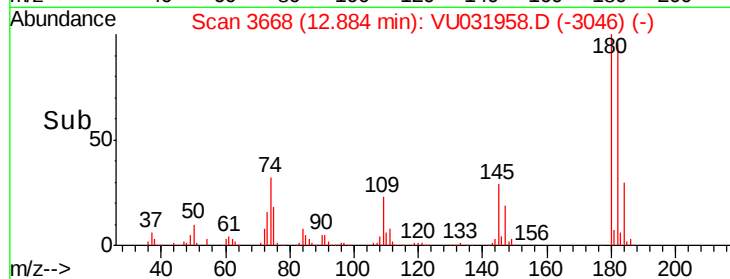
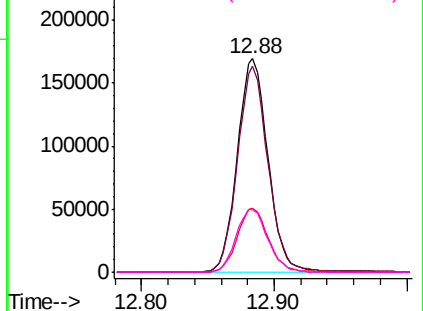
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

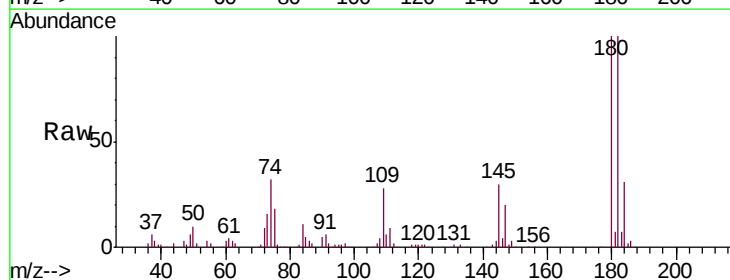
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.443 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031958.D
 Acq: 13 May 2019 09:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.7	74.8	112.2
145	30.9	25.4	38.2

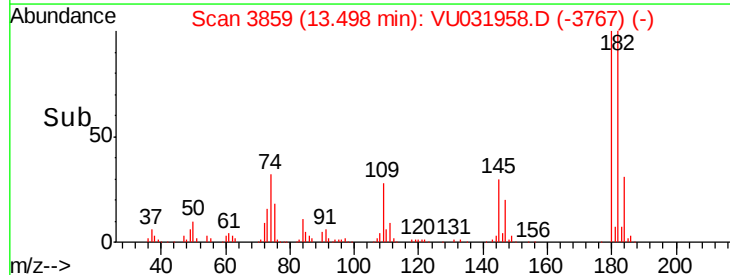
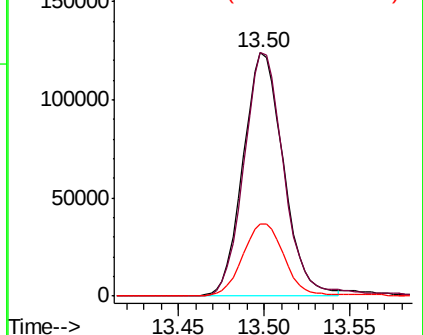


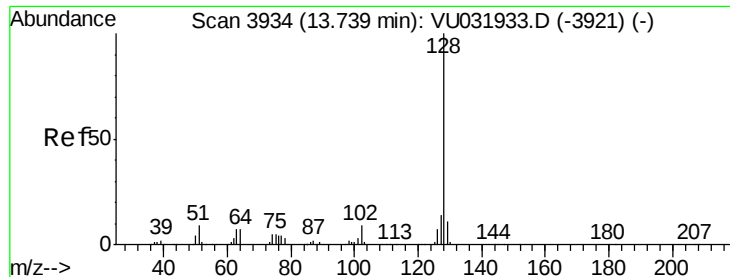
Abundance

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: 5.752 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

Instrument :

MSVOA_U

ClientSampleId :

VSTD00529

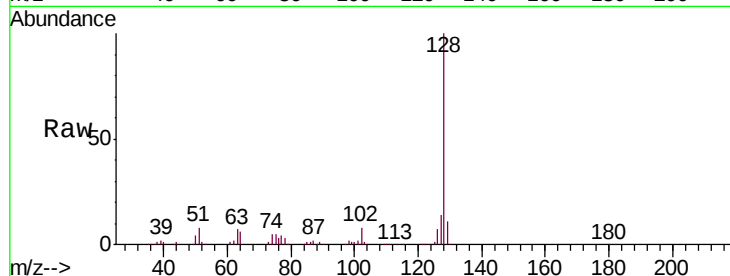
Tgt Ion:128 Resp: 365527

Ion Ratio Lower Upper

128 100

129 10.3 8.0 12.0

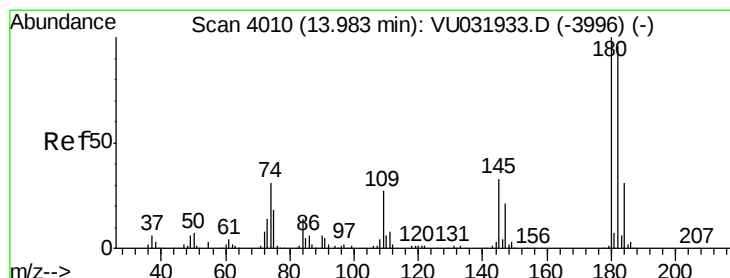
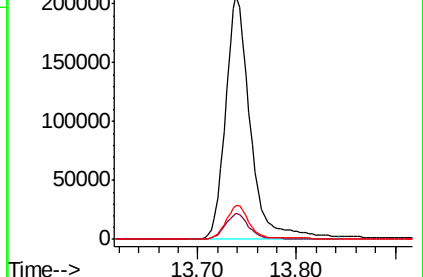
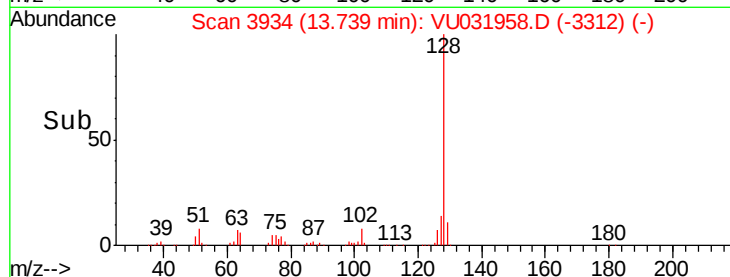
127 13.4 10.7 16.1



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: 6.222 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031958.D

Acq: 13 May 2019 09:25

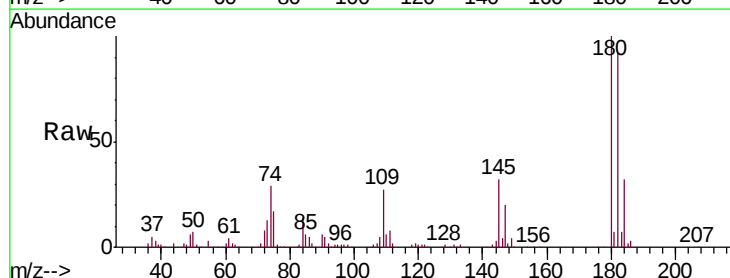
Tgt Ion:180 Resp: 214583

Ion Ratio Lower Upper

180 100

182 95.4 78.4 117.6

145 32.6 27.4 41.0



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

