

Data File : VX001957.D

Acq On : 24 May 2018 22:58

Operator : JC/MD

Sample : VSTDICCC020

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Quant Time: May 25 01:53:11 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri May 25 01:52:03 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	67768	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	373402	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	334401	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	157174	31.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.13%
60) 4-Bromofluorobenzene	11.14	95	168474	31.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.93%
63) Toluene-d8	8.72	98	446597	30.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.03%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	68421	21.29	ug/l	100
3) Chloromethane	1.32	50	81293	22.25	ug/l	100
4) Vinyl Chloride	1.40	62	81674	21.62	ug/l	100
5) Bromomethane	1.64	94	48485	26.08	ug/l	100
6) Chloroethane	1.73	64	48822	19.82	ug/l	100
7) Trichlorofluoromethane	1.93	101	127004	22.99	ug/l	100
8) Diethyl Ether	2.19	74	47078	20.20	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68007	22.42	ug/l	100
10) 1,1-Dichloroethene	2.37	96	65464	21.07	ug/l	100
11) Methyl Iodide	2.51	142	96662	21.03	ug/l	100
12) Methyl Acetate	2.78	43	104137	19.95	ug/l	100
13) Acrolein	2.30	56	43127	75.70	ug/l	100
14) Acrylonitrile	3.15	53	216418	102.86	ug/l	100
15) Acetone	2.45	58	58118	102.88	ug/l	100
16) Carbon Disulfide	2.57	76	183728	23.04	ug/l	100
17) Allyl chloride	2.73	41	136406	22.53	ug/l	100
18) Methylene Chloride	2.86	84	73329	20.18	ug/l	100
19) trans-1,2-Dichloroethene	3.17	96	68772	20.50	ug/l	100
20) Diisopropyl ether	3.89	45	255573	22.47	ug/l	100
21) 1,1-Dichloroethane	3.70	63	137540	21.47	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	80542	21.05	ug/l	100
23) tert-Butyl Alcohol	3.08	59	113797	116.89	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	255719	22.28	ug/l	100
25) Chloroform	5.23	83	142542	21.51	ug/l	100
26) Cyclohexane	5.58	56	125672	25.52	ug/l	# 100
29) 1,1-Dichloropropene	5.81	75	101463	21.66	ug/l	100
30) 2-Butanone	4.72	43	358557	114.05	ug/l	100
31) 2,2-Dichloropropane	4.59	77	92690	22.68	ug/l	100
32) 1,1,1-Trichloroethane	5.51	97	132789	22.18	ug/l	100
33) Carbon Tetrachloride	5.79	117	121952	22.85	ug/l	100
34) Benzene	6.15	78	309786	20.87	ug/l	100
35) Methacrylonitrile	5.07	41	77785	22.77	ug/l	100
36) 1,2-Dichloroethane	6.21	62	121648	20.81	ug/l	100
37) Trichloroethene	7.22	130	88326	20.36	ug/l	100
38) Methylcyclohexane	7.46	83	118174	23.15	ug/l	100
39) 1,2-Dichloropropane	7.52	63	83730	22.10	ug/l	100
40) Dibromomethane	7.67	93	56353	21.09	ug/l	100

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MSVOA_X
ClientSampleId :
VSTDICCC020

Quant Time: May 25 01:53:11 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri May 25 01:52:03 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	116155	22.54	ug/l	100
42) Vinyl Acetate	3.83	43	1155077	111.68	ug/l	100
43) Ethyl Acetate	4.87	43	141201	23.36	ug/l	100
44) Isopropyl Acetate	6.48	43	232725	24.55	ug/l	100
45) 1,4-Dioxane	7.76	88	44094	417.73	ug/l	100
46) Methyl methacrylate	7.79	41	117538	23.40	ug/l	100
47) n-amyl Acetate	10.90	43	208073	25.04	ug/l #	91
48) t-1,3-Dichloropropene	8.45	75	129965	22.71	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	124023	24.01	ug/l	100
50) 1,1,2-Trichloroethane	9.22	97	78857	20.23	ug/l	100
51) Ethyl methacrylate	9.19	69	137734	23.18	ug/l	100
52) 1,3-Dichloropropane	9.38	76	135161	20.82	ug/l	100
53) Dibromochloromethane	9.59	129	95572	22.59	ug/l	100
54) 1,2-Dibromoethane	9.68	107	85863	20.75	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	341232	110.64	ug/l	100
56) Bromoform	10.87	173	81797	23.19	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	733186	118.61	ug/l	100
59) 2-Hexanone	9.51	43	561201	120.48	ug/l	100
61) Tetrachloroethene	9.34	164	101944	21.19	ug/l	100
62) Toluene	8.79	91	334588	20.98	ug/l	100
64) Chlorobenzene	10.15	112	214758	20.64	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	88116	21.93	ug/l	100
66) Ethyl Benzene	10.26	91	373917	22.24	ug/l	100
67) m/p-Xylenes	10.37	106	281811	42.60	ug/l	100
68) o-Xylene	10.71	106	141770	21.51	ug/l	100
69) Styrene	10.72	104	232896	21.43	ug/l	100
70) Isopropylbenzene	11.02	105	379231	22.27	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	116219	20.59	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	152518	27.38	ug/l	89
73) Bromobenzene	11.26	156	99581	19.75	ug/l	100
74) n-propylbenzene	11.37	91	420035	22.37	ug/l	100
75) 2-Chlorotoluene	11.43	91	258801	22.05	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	320188	22.30	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	40032	25.94	ug/l	100
78) 4-Chlorotoluene	11.52	91	289114	21.71	ug/l	100
79) tert-butylbenzene	12.07	119	331132	21.92	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	324027	22.17	ug/l	100
81) sec-Butylbenzene	11.95	105	375803	22.53	ug/l	100
82) p-Isopropyltoluene	12.07	119	331132	21.92	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	172597	19.66	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	171022	19.42	ug/l	100
85) n-Butylbenzene	12.40	91	270423	22.18	ug/l	100
86) Hexachloroethane	12.60	117	65741	25.71	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	177356	19.52	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	33734	24.28	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	122769	18.97	ug/l	100
90) Hexachlorobutadiene	13.79	225	66808	20.14	ug/l	100
91) Naphthalene	13.84	128	407330	20.66	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	131691	19.26	ug/l	100

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX052518\
Quantitation Report (Not Reviewed)

Data File : VX001957.D
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Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Quant Time: May 25 01:53:11 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 01:52:03 2018
Response via : Initial Calibration

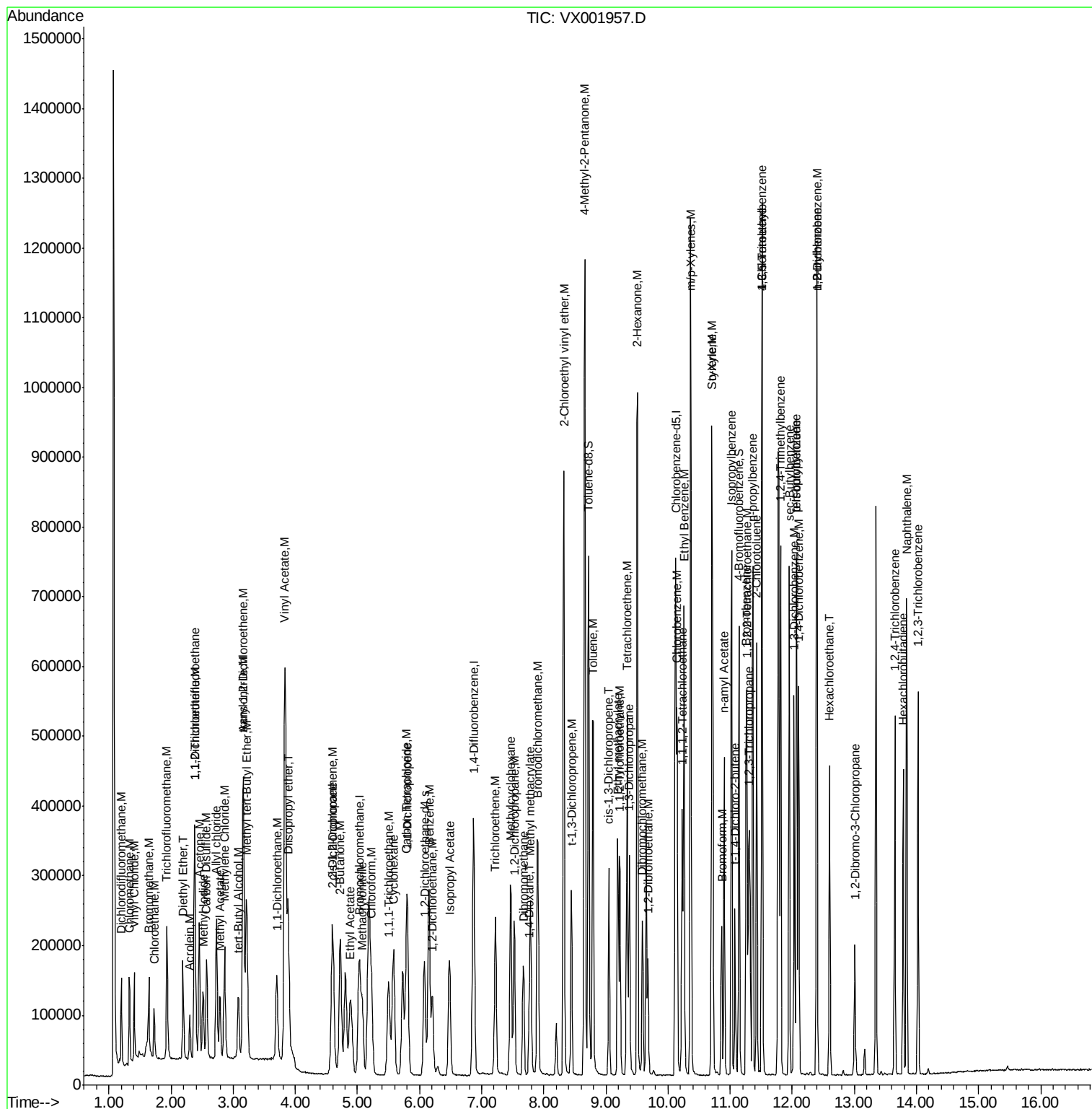
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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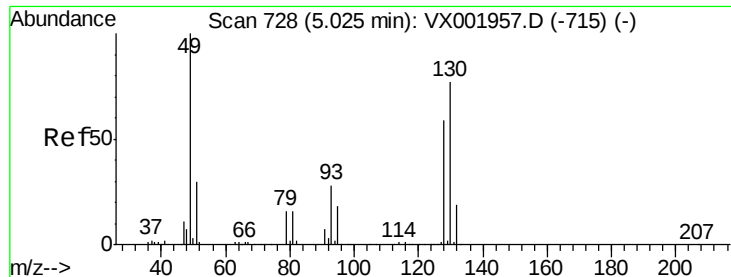
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial      : 25      Sample Multiplier: 1
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VSTDICCC020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC020

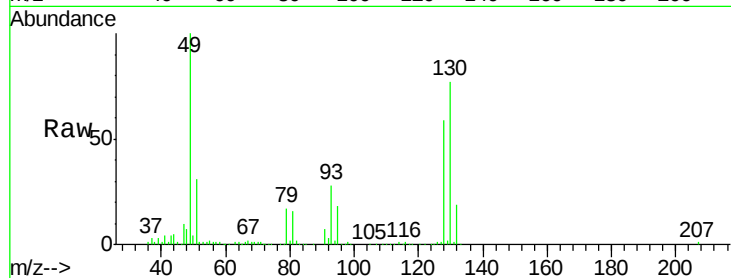
Tgt Ion:128 Resp: 67768

Ion Ratio Lower Upper

128 100

49 169.2 0.0 423.0

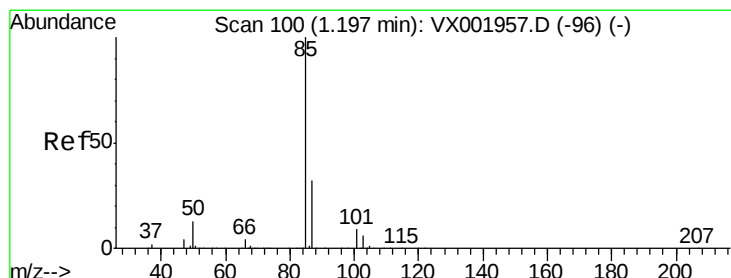
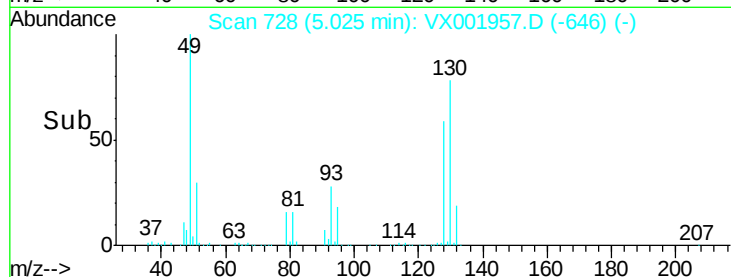
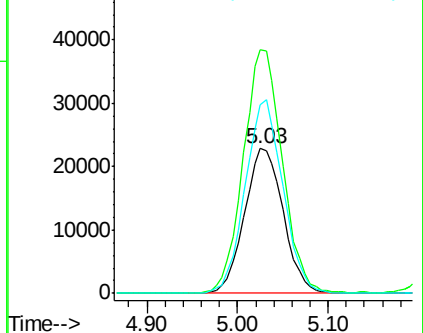
130 129.7 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 21.29 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX001957.D

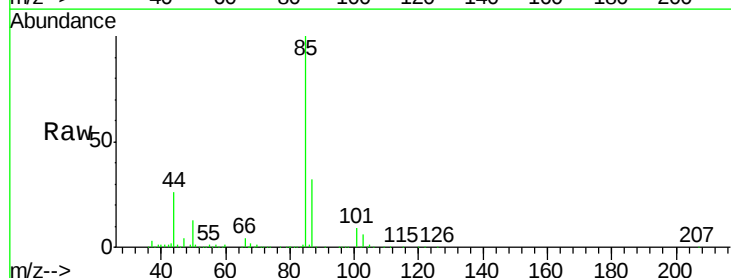
Acq: 24 May 2018 22:58

Tgt Ion: 85 Resp: 68421

Ion Ratio Lower Upper

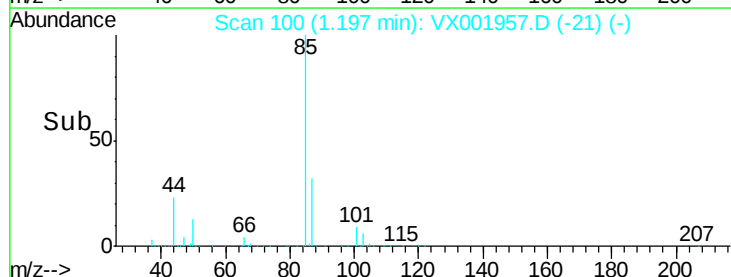
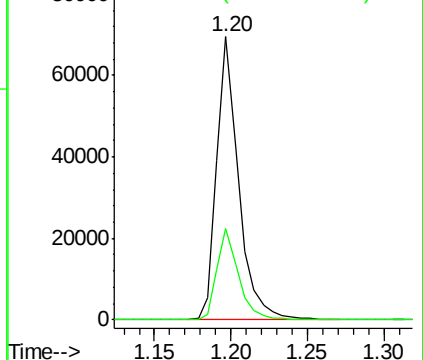
85 100

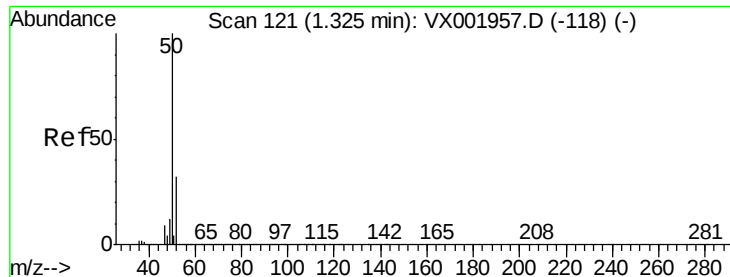
87 32.3 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 22.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

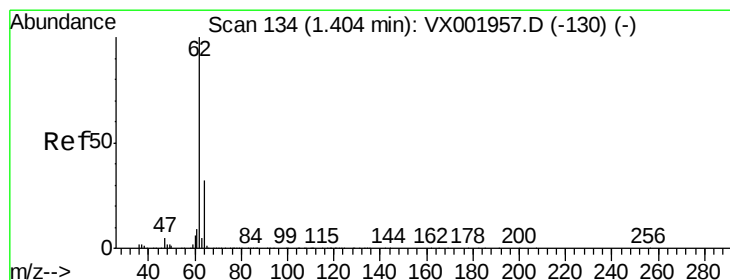
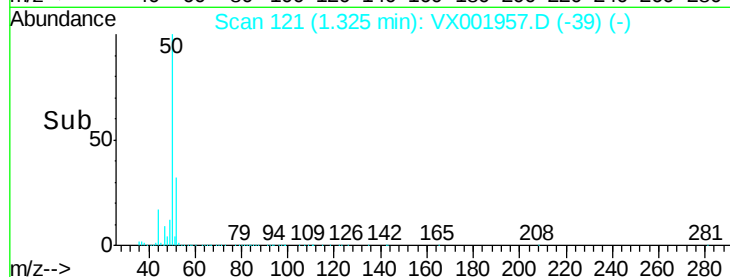
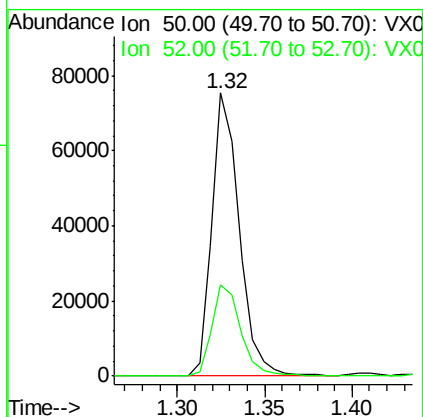
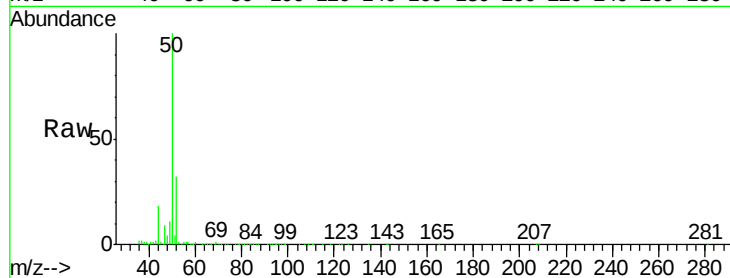
VSTDICCC020

Tgt Ion: 50 Resp: 81293

Ion Ratio Lower Upper

50 100

52 32.0 25.6 38.4



#4

Vinyl Chloride

Concen: 21.62 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001957.D

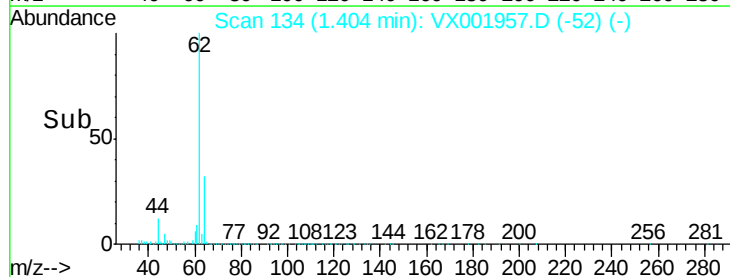
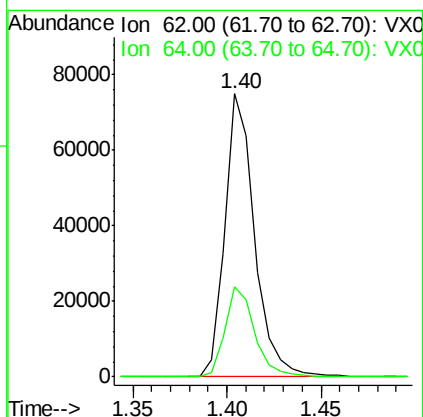
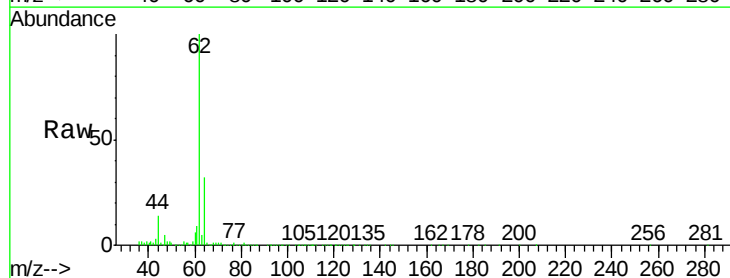
Acq: 24 May 2018 22:58

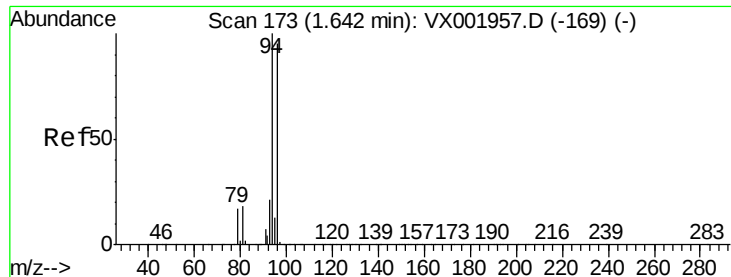
Tgt Ion: 62 Resp: 81674

Ion Ratio Lower Upper

62 100

64 31.6 25.3 37.9





#5

Bromomethane

Concen: 26.08 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

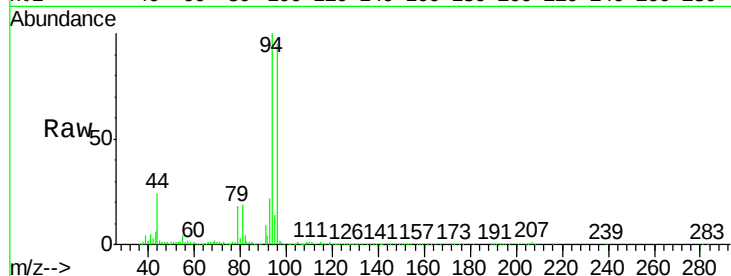
VSTDICCC020

Tgt Ion: 94 Resp: 48485

Ion Ratio Lower Upper

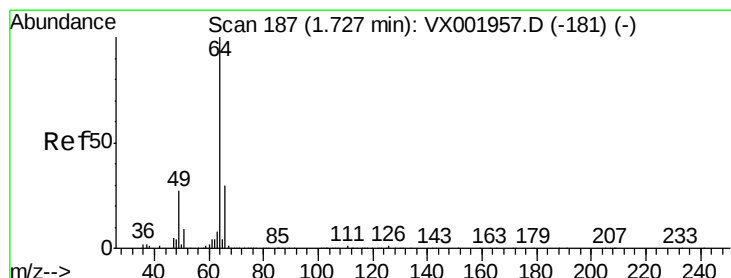
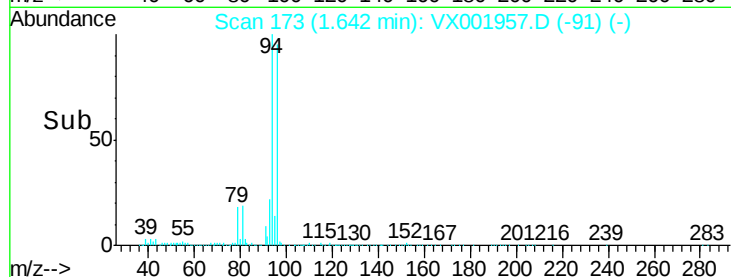
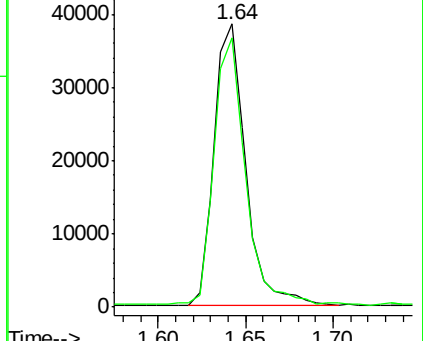
94 100

96 94.6 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 19.82 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX001957.D

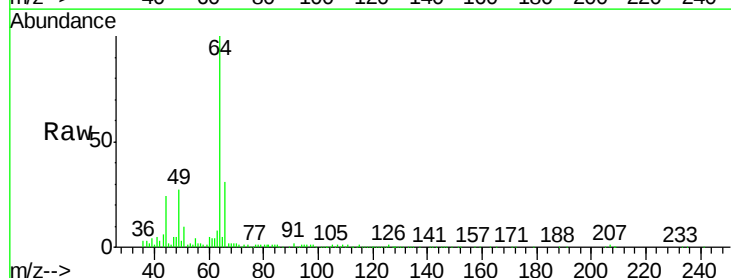
Acq: 24 May 2018 22:58

Tgt Ion: 64 Resp: 48822

Ion Ratio Lower Upper

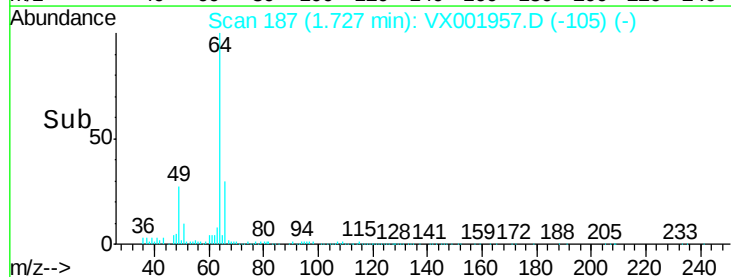
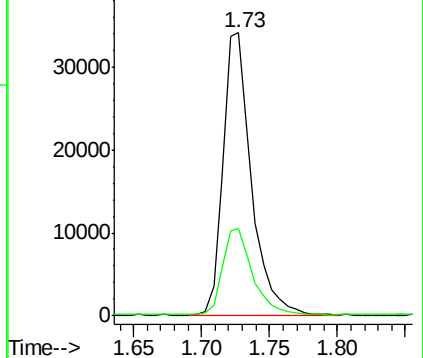
64 100

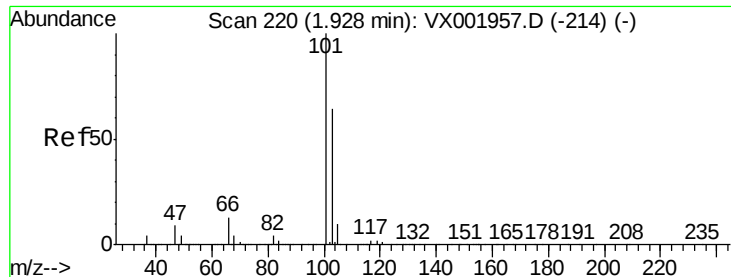
66 30.4 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



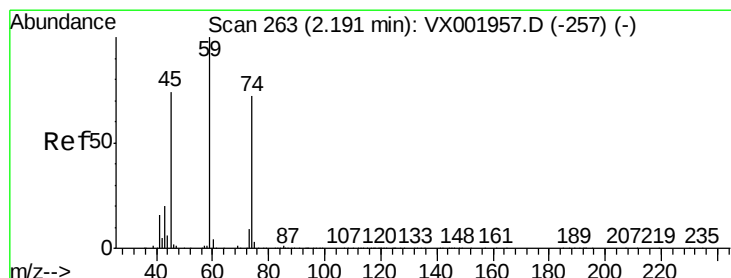
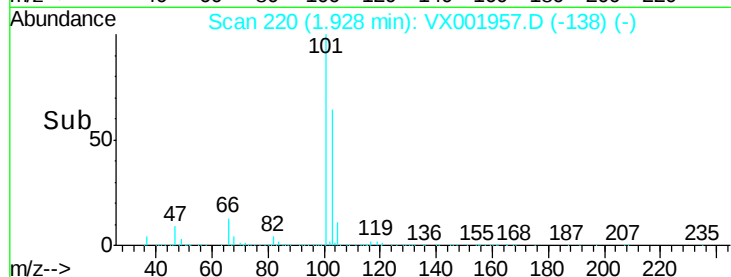
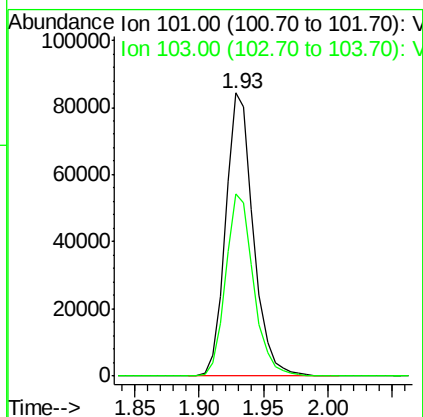
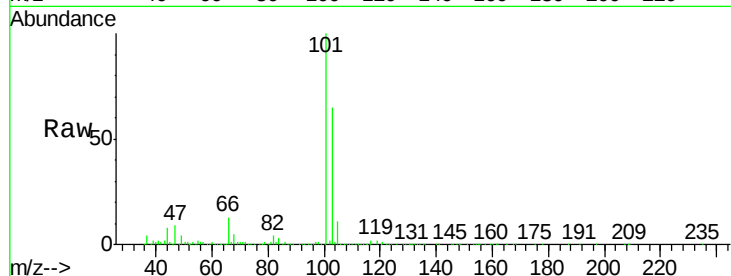


#7

Trichlorofluoromethane
 Concen: 22.99 ug/l
 RT: 1.93 min Scan# 220
 Delta R.T. 0.00 min
 Lab File: VX001957.D
 Acq: 24 May 2018 22:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

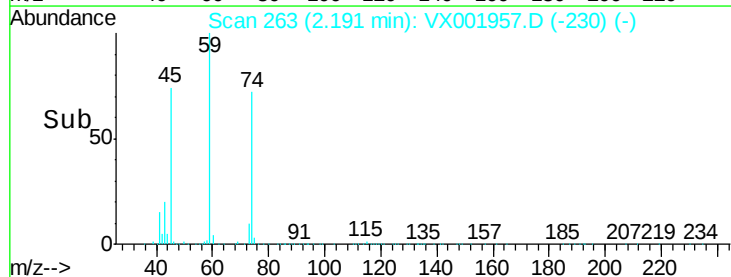
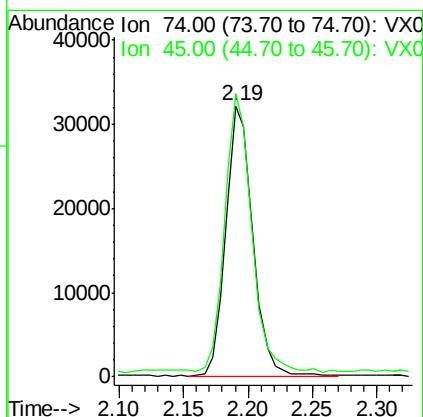
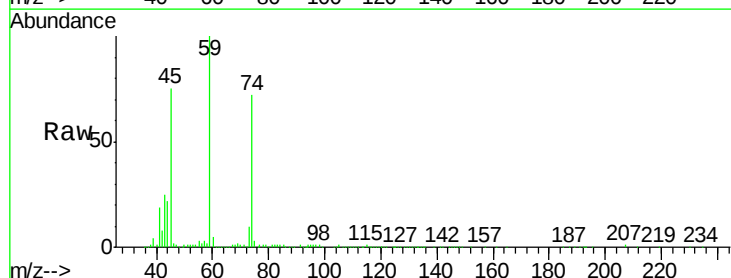
Tgt Ion: 101 Resp: 127004
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.5 77.3

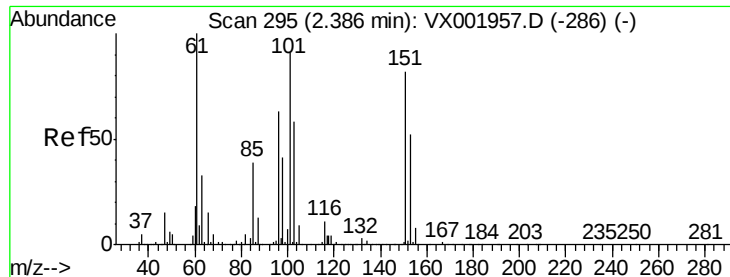


#8

Diethyl Ether
 Concen: 20.20 ug/l
 RT: 2.19 min Scan# 263
 Delta R.T. 0.00 min
 Lab File: VX001957.D
 Acq: 24 May 2018 22:58

Tgt Ion: 74 Resp: 47078
 Ion Ratio Lower Upper
 74 100
 45 102.5 20.5 184.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.42 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

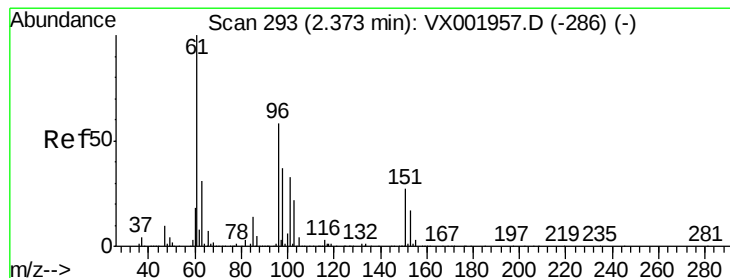
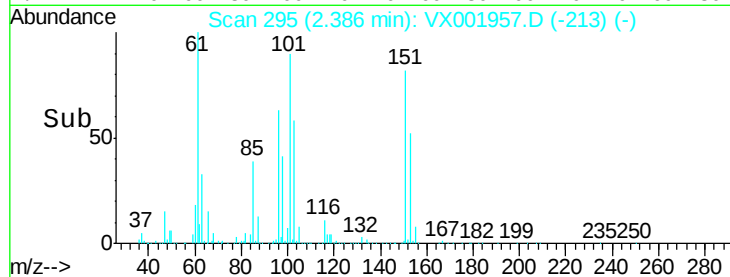
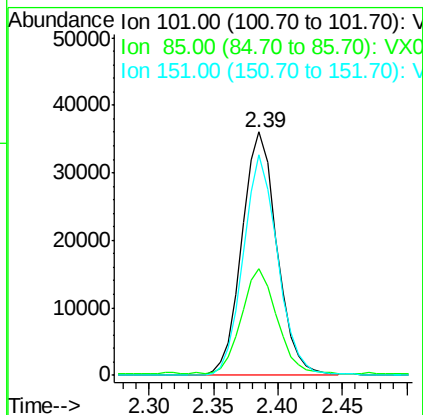
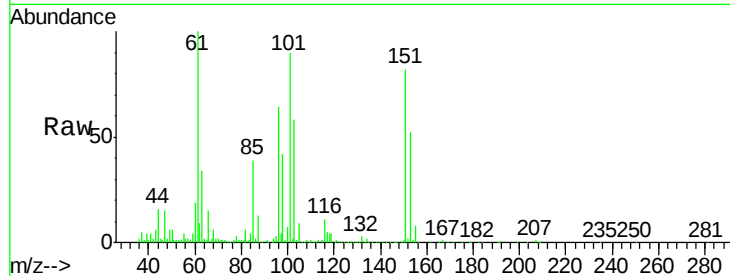
Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC020

Tgt Ion:	101	Resp:	68007
Ion	Ratio	Lower	Upper
101	100		
85	43.5	0.0	87.0
151	88.8	0.0	177.6



#10

1,1-Dichloroethene

Concen: 21.07 ug/l

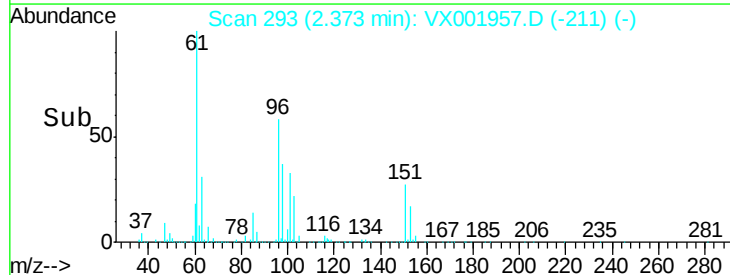
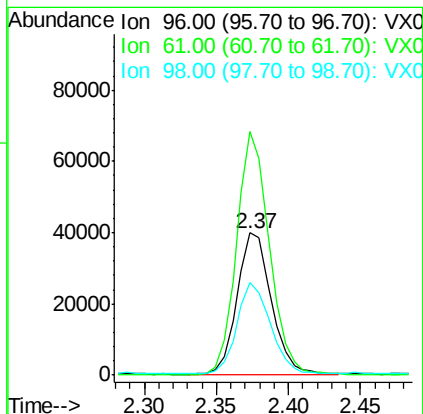
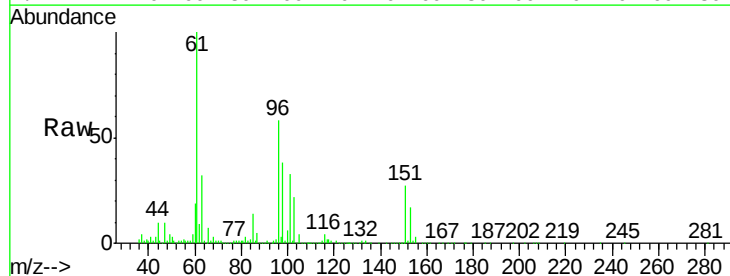
RT: 2.37 min Scan# 293

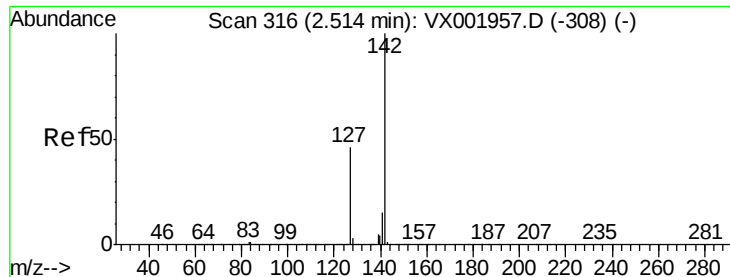
Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Tgt Ion:	96	Resp:	65464
Ion	Ratio	Lower	Upper
96	100		
61	171.9	137.5	206.3
98	64.3	51.4	77.2

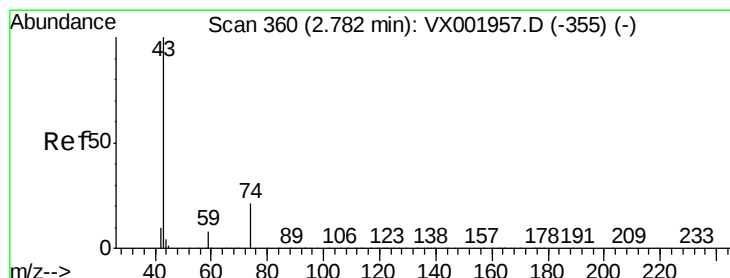
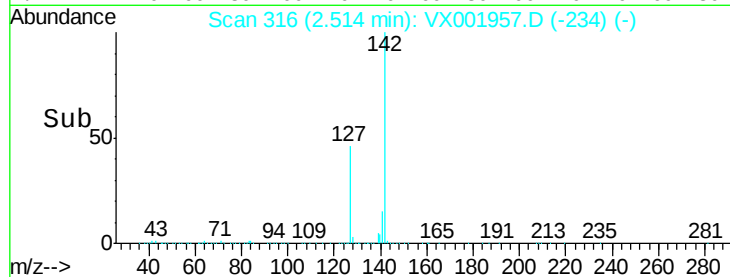
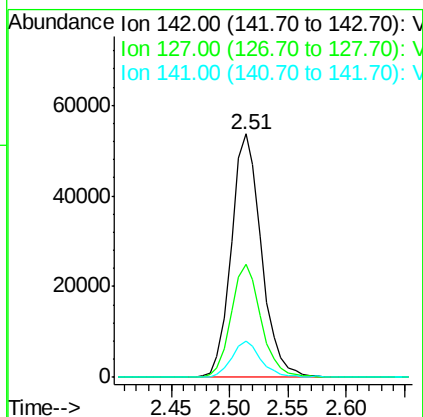
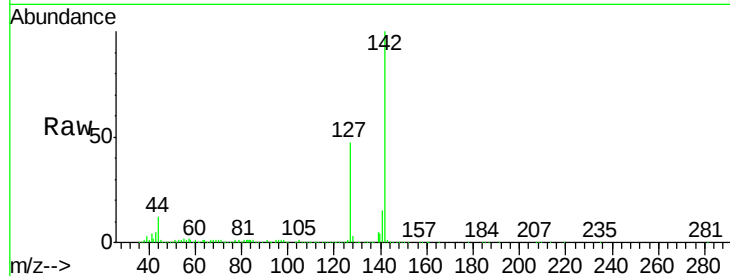




#11
Methyl Iodide
Concen: 21.03 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX001957.D
Acq: 24 May 2018 22:58

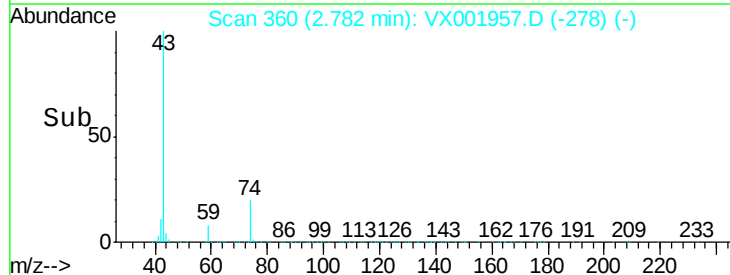
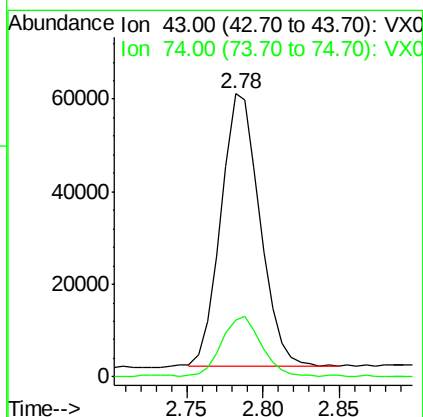
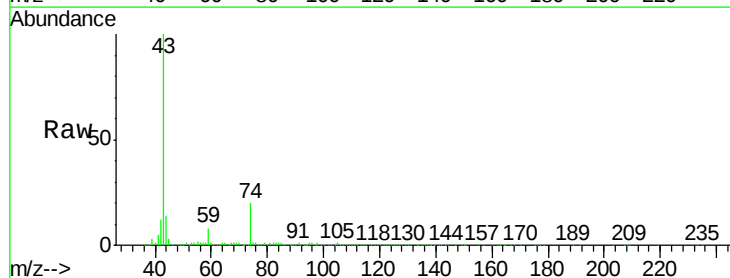
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

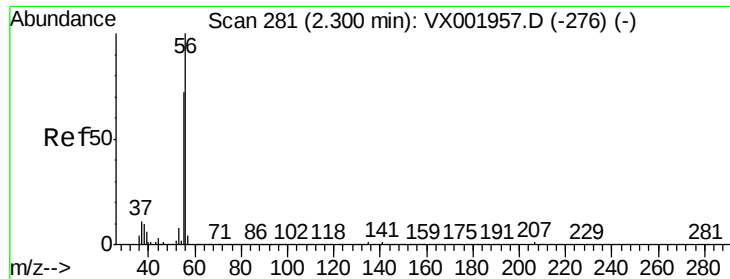
Tgt Ion:142 Resp: 96662
Ion Ratio Lower Upper
142 100
127 46.4 23.2 69.6
141 14.8 7.4 22.2



#12
Methyl Acetate
Concen: 19.95 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX001957.D
Acq: 24 May 2018 22:58

Tgt Ion: 43 Resp: 104137
Ion Ratio Lower Upper
43 100
74 20.5 16.4 24.6





#13

Acrolein

Concen: 75.70 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

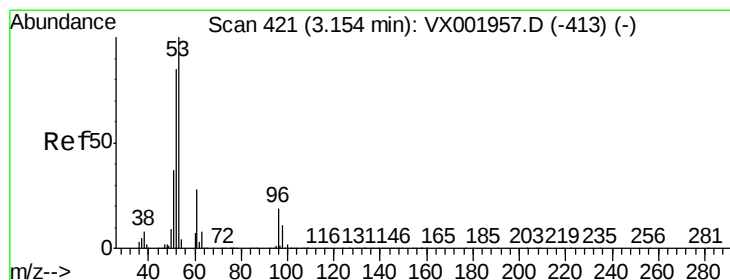
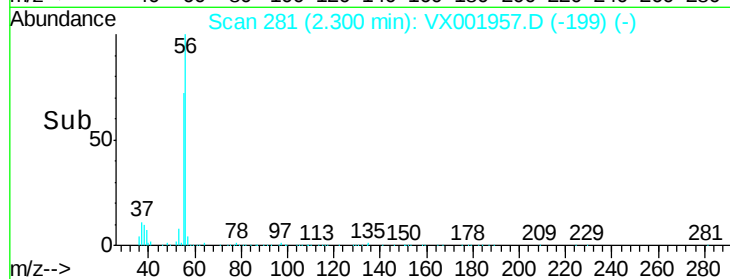
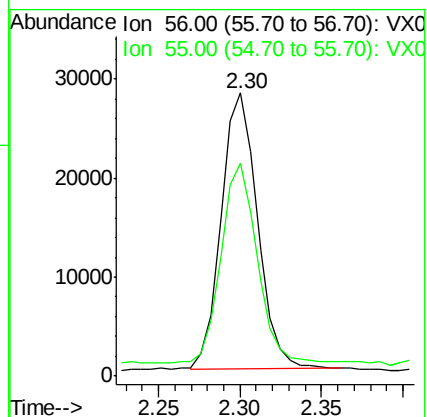
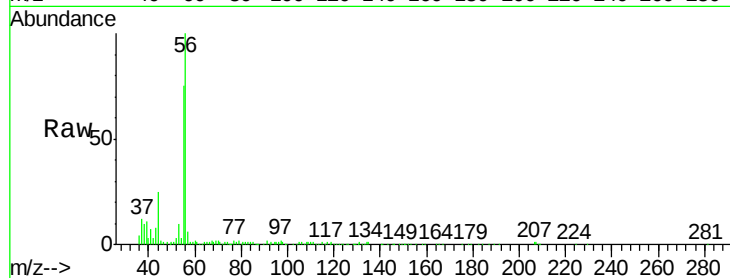
VSTDICCC020

Tgt Ion: 56 Resp: 43127

Ion Ratio Lower Upper

56 100

55 71.6 57.3 85.9



#14

Acrylonitrile

Concen: 102.86 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

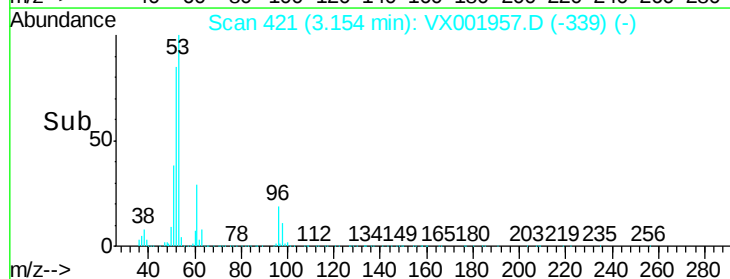
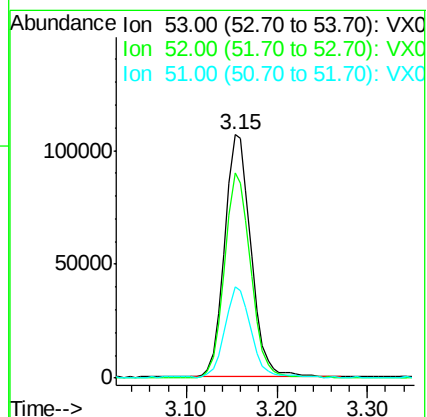
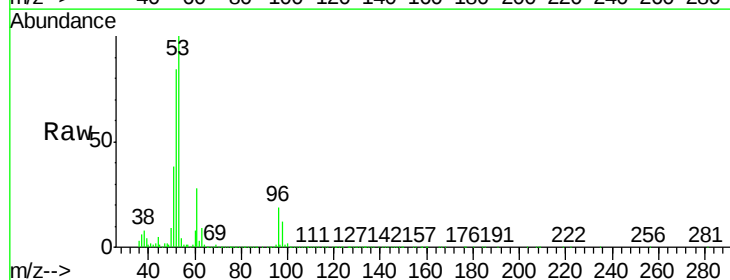
Tgt Ion: 53 Resp: 216418

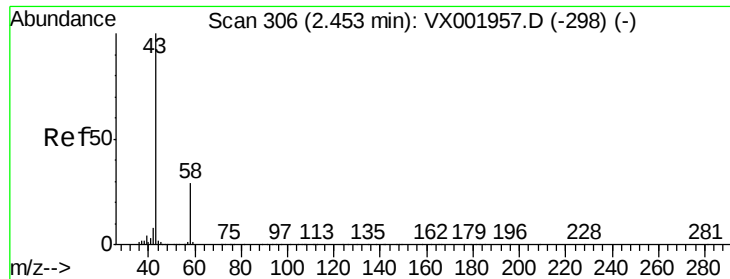
Ion Ratio Lower Upper

53 100

52 83.1 41.5 124.6

51 35.9 17.9 53.8





#15

Acetone

Concen: 102.88 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Instrument :

MSVOA_X

ClientSampleId :

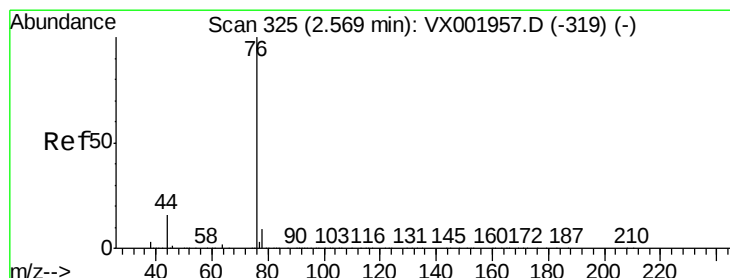
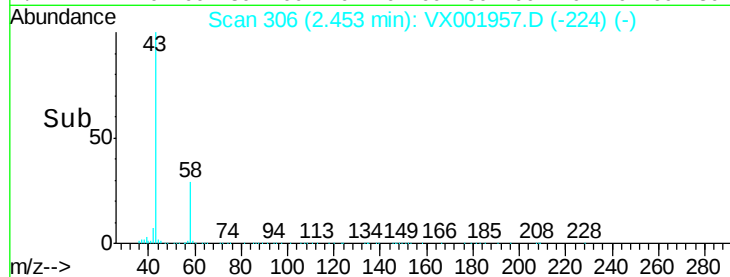
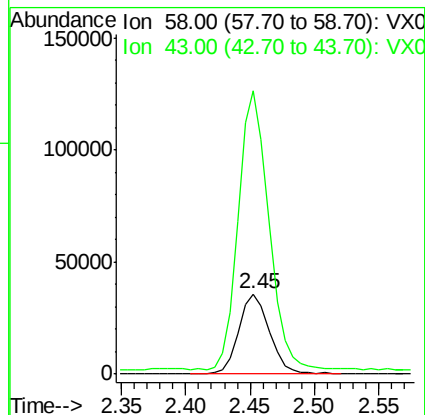
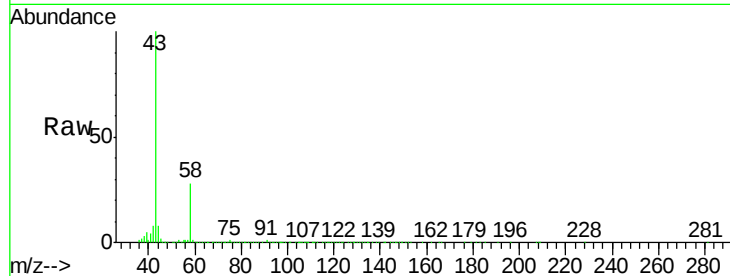
VSTDICCC020

Tgt Ion: 58 Resp: 58118

Ion Ratio Lower Upper

58 100

43 348.5 278.8 418.2



#16

Carbon Disulfide

Concen: 23.04 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX001957.D

Acq: 24 May 2018 22:58

Tgt Ion: 76 Resp: 183728

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

